



Nakamichi

Service Manual

**Nakamichi
1000ZXL**

Computing Cassette Deck

Limited

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1.2. Power Supply P.C.B. Ass'y

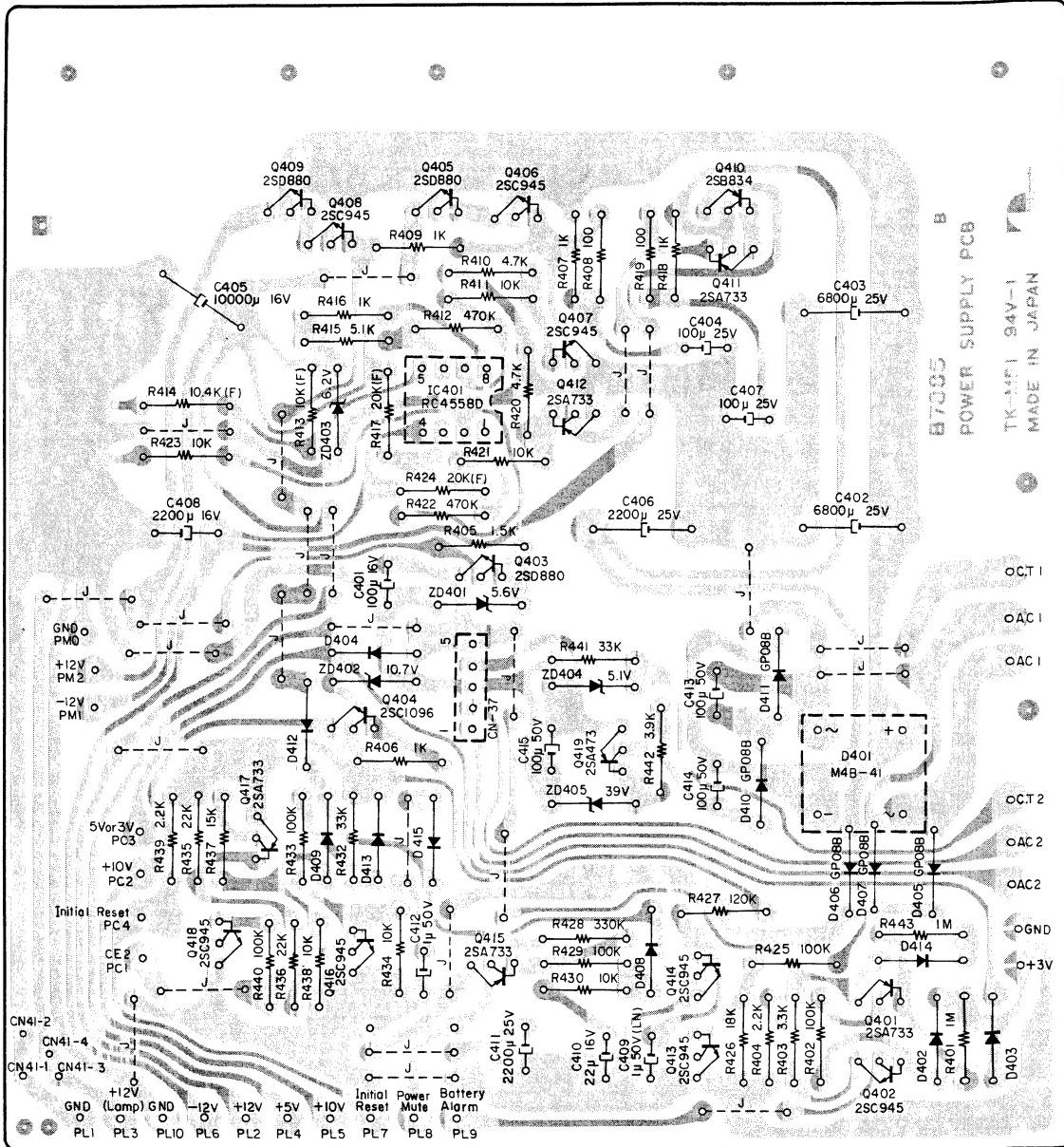


Fig. 1.2

Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
IC401	BAL4234A	Power Supply P.C.B. Ass'y	C410	OB01862A	Electrolytic Capacitor 22μ 16V
Q401,411	OB07885B	Power Supply P.C.B.	C412	OB01405A	Electrolytic Capacitor 1μ 50V
412,415	OB06124B	IC RC4558D	C413,414	OB09313A	Electrolytic Capacitor 100μ 50V
417	OB06013A	Transistor 2SA733	415	OBL8724A	5P-T Post
Q402,406	OB06100A	Transistor 2SC945 (A)	CN37	OBL8743A	4P-H Connector 700mm
407,408			CN41		
413,414					
416,418					
Q403,405	OB06255A	Transistor 2SD880 (Y)		BA04242A	Pin Jack P.C.B. Ass'y
409	OB06020A	Transistor 2SC1096		OB07889A	Pin Jack P.C.B.
Q410	OB06256A	Transistor 2SB834 (Y)	FC1	OB05247A	9P Flat Cable 140mm
Q419	OB06060A	Transistor 2SA473 (Y)		OB08726A	Pin Jack Unit UA-1047 (3 pcs.)
ZD401	OB06268A	Zener Diode 5.6V RD5.6EB3	CN10,11	BAL4243A	MIC Jack P.C.B. Ass'y
ZD402	OB06231A	Zener Diode 10.7V RD11EB3	12	OB07890A	MIC Jack P.C.B.
ZD403	OB06167A	Zener Diode 6.2V RD6.2EB3		OBL8654A	4P-T Post
ZD404	OB06230A	Zener Diode 5.1V RD5.1EB3		OB08725A	MIC Jack HLJ0259-01-010 (3 pcs.)
ZD405	OB06235A	Zener Diode 39V RD39EB3			
D401	OB06267A	Diode Bridge M4B-41		BAL4241A	RAMM Control Switch P.C.B. Ass'y
D402,403	OB06181A	Silicon Diode 1SS53 (9 pcs.)	SW901-906	OB07888A	RAMM Control Switch P.C.B.
404,408			CN24	OB07254A	Push Switch EVQ-PXR04K (6 pcs.)
409				OBL8752A	8P-H Connector 380mm
412-415					
D405,406	OB06109A	Silicon Diode GP08B			
407,410					
411					
R401,443	OB05776A	Carbon Resistor 1M ERD-25T J			
R402,425	OB01889A	Carbon Resistor 100K ERD-25T J			
429,433					
440					
R403	OB01681A	Carbon Resistor 3.3K ERD-25T J			
R404,439	OB05622A	Carbon Resistor 2.2K ERD-25T J			
R405	OB05698A	Carbon Resistor 1.5K ERD-25T J			
R406,407	OB01857A	Carbon Resistor 1K ERD-25T J			
409,416					
418					
R408,419	OB01679A	Carbon Resistor 100 ERD-25T J			
R410,420	OB01846A	Carbon Resistor 4.7K ERD-25T J			
R411,421	OB01888A	Carbon Resistor 10K ERD-25T J			
423,430					
434,438					
R412,422	OB01684A	Carbon Resistor 470K ERD-25T J			
R413	OB09203A	Metal Film Resistor 10K SN14K2E F			
R414	OB09433A	Metal Film Resistor 10.4K SN14K2E F			
R415	OB09314A	Carbon Resistor 5.1K ERD-25T J			
R417,424	OB09439A	Metal Film Resistor 20K SN14K2E F			
R426	OB05560A	Carbon Resistor 18K ERD-25T J			
R427	OB05621A	Carbon Resistor 120K ERD-25T J			
R428	OB05627A	Carbon Resistor 330K ERD-25T J			
R432,441	OB05509A	Carbon Resistor 33K ERD-25T J			
R435,436	OB05615A	Carbon Resistor 22K ERD-25T J			
R437	OB01683A	Carbon Resistor 15K ERD-25T J			
R442	OB05675A	Carbon Resistor 3.9K ERD-25T J			
C401	OB01400A	Electrolytic Capacitor 100μ 16V			
C402,403	OB09374A	Electrolytic Capacitor 6800μ 25V			
C404,407	OB01272A	Electrolytic Capacitor 100μ 25V			
C405	OB09487A	Electrolytic Capacitor 10000μ 16V			
C406,411	OB05654A	Electrolytic Capacitor 2200μ 25V			
C408	OB01406A	Electrolytic Capacitor 2200μ 16V			
C409	OB09223A	Electrolytic Capacitor 1μ 50V (LN)			

1.3. Pin Jack P.C.B. Ass'y

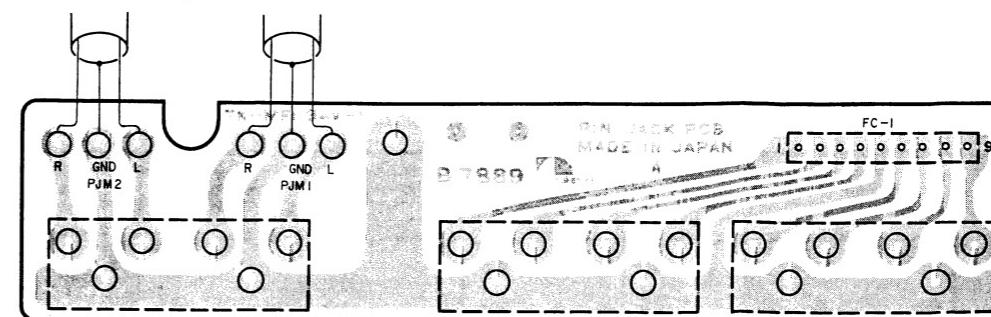


Fig. 1.3

1.4. MIC Jack P.C.B. Ass'y

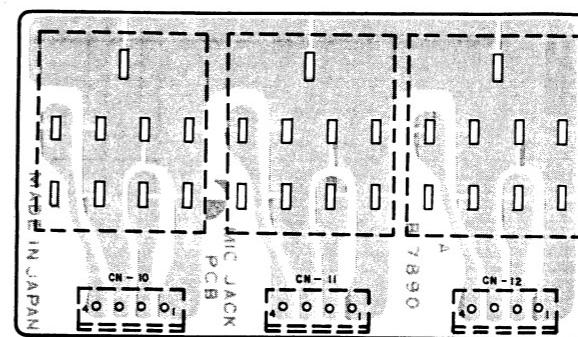


Fig. 1.4

1.5. RAMM Control Switch P.C.B. Ass'y

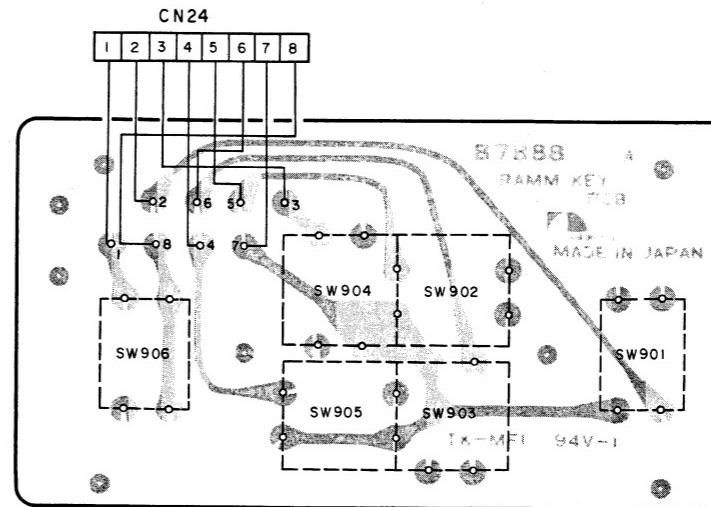


Fig. 1.5

1.6. Function Switch P.C.B. Ass'y

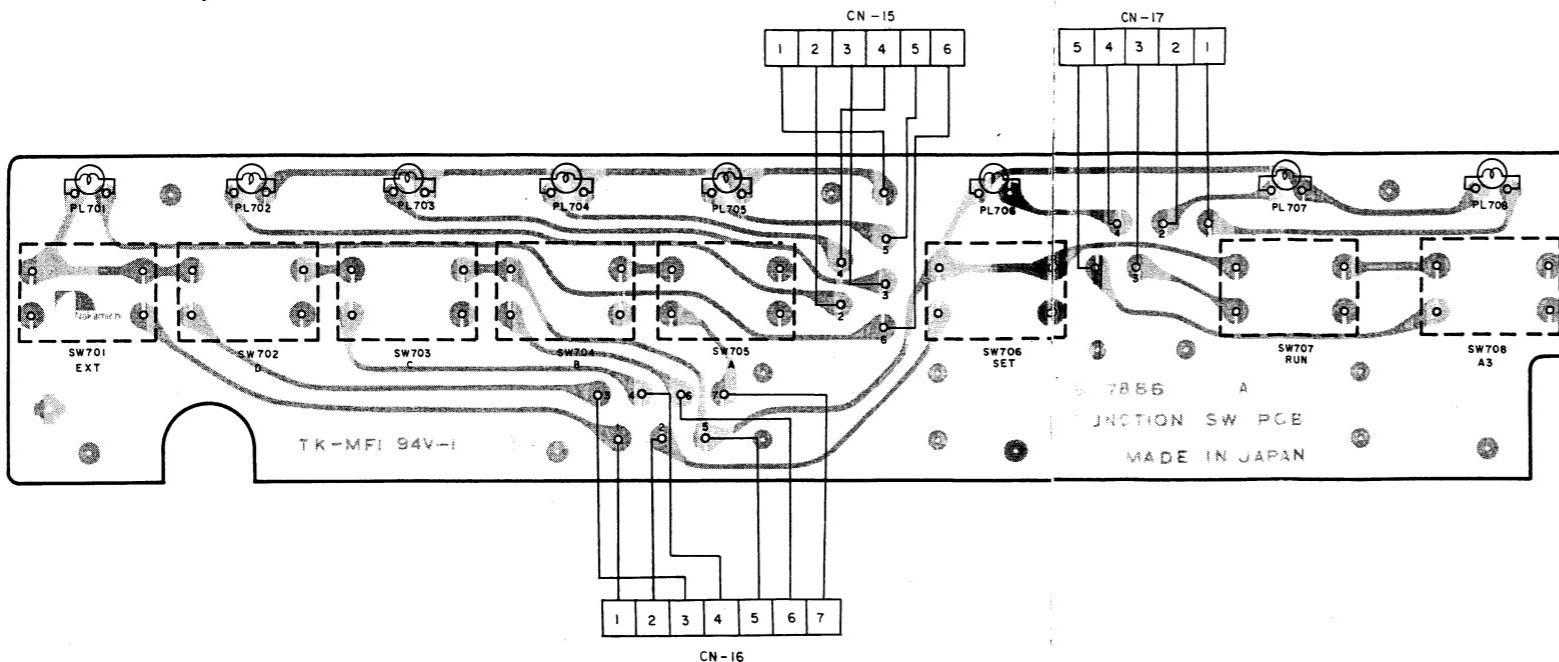


Fig. 1.6

1.7. Mechanism Control Switch P.C.B. Ass'y

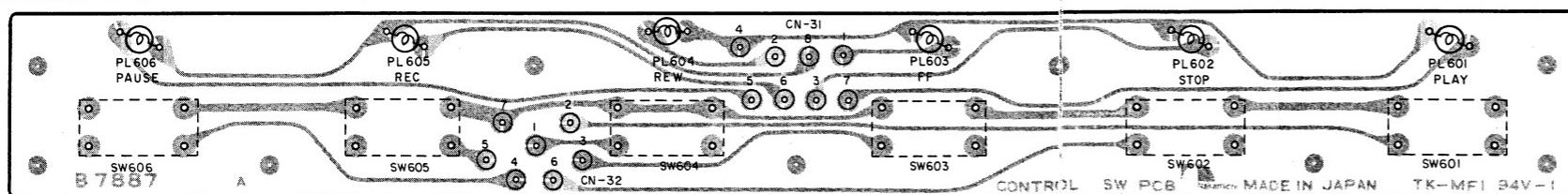


Fig. 1.7

1.8. Speed Cal. P.C.B. Ass'y

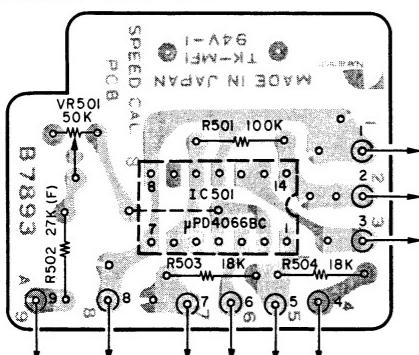


Fig. 1.8

1.9. Counter Pulse Generator P.C.B. Ass'y

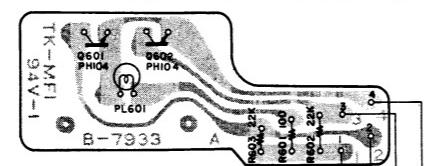


Fig. 1.9

1.10. Shut-off P.C.B. Ass'y

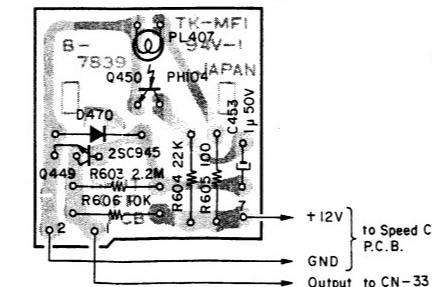


Fig. 1.10

Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description
BAL4240A	Function Switch P.C.B. Ass'y	Function Switch P.C.B.
PL701-708	OB07886A	Lamp 12V 30mA (8 pcs.)
SW701-708	OB08721A	Push Switch EVQ-PXR04K (8 pcs.)
CN15	OB07254A	6P-H Connector 500mm
CN16	OBL8750B	7P-H Connector 630mm
17	OBL8751A	5P-H Connector 600mm
	OBL8749A	
BAL4239A	Mechanism Control Switch P.C.B. Ass'y	Mechanism Control Switch P.C.B.
PL601-606	OB07887A	Lamp 12V 60mA (6 pcs.)
SW601-606	OB08722A	Push Switch EVQ-PXR04K (6 pcs.)
CN31	OB07254A	8P-H Connector 200mm
CN32	OBL8748A	7P-H Connector 200mm
OBL8747A		
BA04238A	Speed Cal. P.C.B. Ass'y	Speed Cal P.C.B.
IC501	OB07893A	IC μ PD4066BC
VR501	OB06144A	Semi-fixed Volume 50K
R501	OB07269A	Carbon Resistor 100K ERD-25T J
R502	OB01889A	Metal Film Resistor 27K SN14K2E F
R503,504	OB09444A	Carbon Resistor 18K ERD-25T J
	OB05560A	
BAL4237B	Counter Pulse Generator P.C.B. Ass'y	Counter Pulse Generator P.C.B.
Q601,602	OB07933A	Photo Transistor PH104
R601	OB06228A	Fail Safe Type Resistor 100 RDF-25S J
R602,603	OB09215A	Carbon Resistor 22K ERD-25V J
PL601	OB05661A	Lamp 12V 25mA
	OBL8552A	P.C.B. Holder (1 pce.)
	OC08281B	BT Screw M2.6x6 Philips Pan Head (2 pcs.)
OE00792A		
BAL4070A	Shut-off P.C.B. Ass'y	Shut-off P.C.B.
Q449	OB07839A	Transistor 2SC945 (L)
Q450	OB01872A	Photo Transistor PH104
D470	OB06228A	Silicon Diode 1SS53
R603	OB06181A	Carbon Resistor 2.2M ERD-25T J
R604	OB05671A	Carbon Resistor 22K ERD-25T J
R605	OB05615A	Fail Safe Type Resistor 100 RDF-25S J
R606	OB09215A	Carbon Resistor 10K ERD-25T J
C453	OB01888A	Electrolytic Capacitor 1 μ 50V
PL407	OBL8552A	Lamp 12V 25mA

1.11. FL Indicator P.C.B. A Ass'y

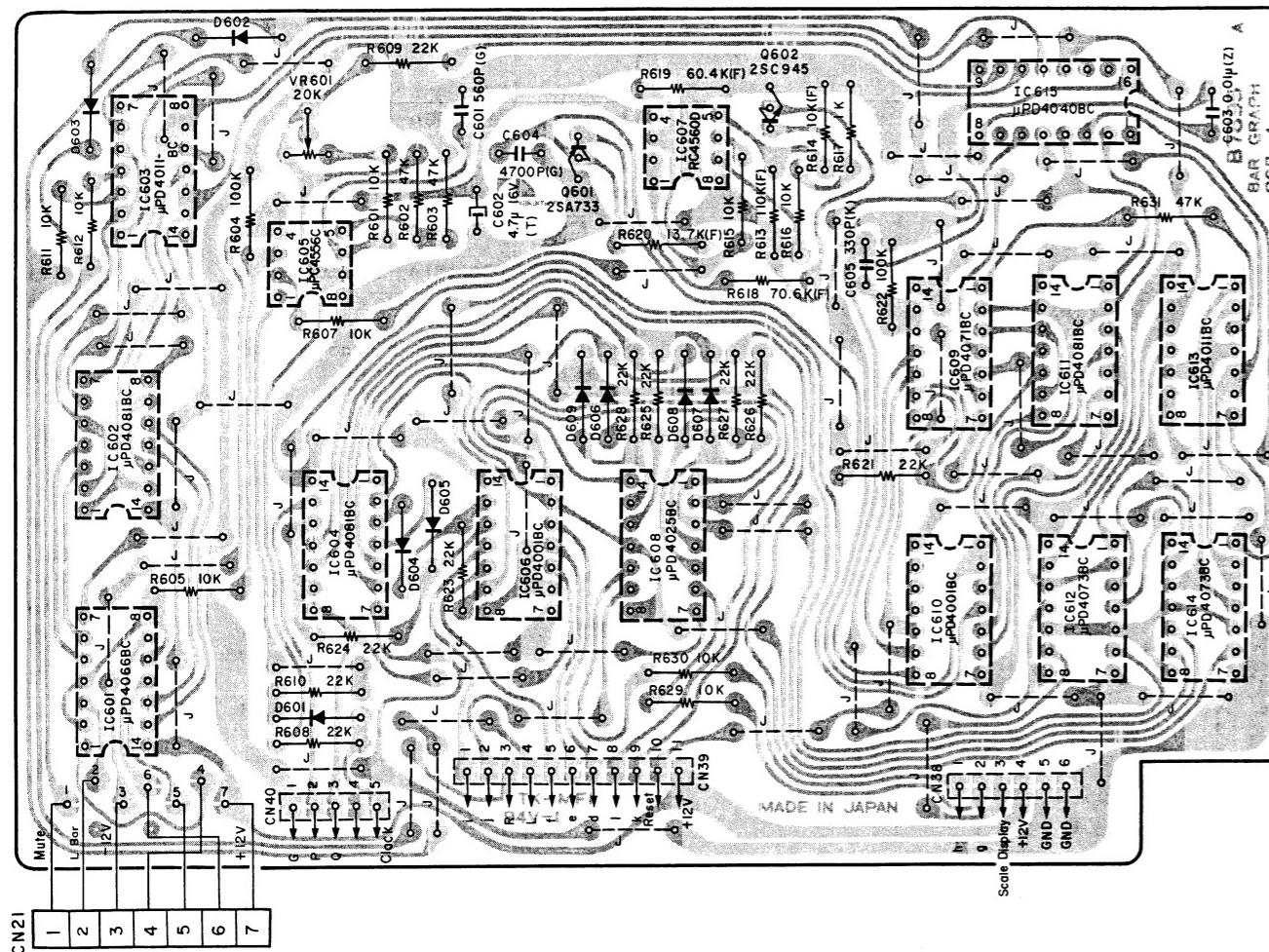


Fig. 1.11 Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description
	BAL4245A	FL Indicator P.C.B. A Ass'y
IC601	OB07895A	FL Indicator P.C.B. A
IC602,604	OB06144A	μPD4066BC
611	OB06219A	μPD4081BC
IC603,613	OB06178A	μPD4011BC
IC605	OB06216A	μPC4556C
IC606,610	OB06143A	μPD4001BC
IC607	OB06217A	RC4560D
IC608	OB06262A	μPD4025BC
IC609	OB06214A	μPD4071BC
IC612,614	OB06244A	μPD4073BC
IC615	OB06223A	μPD4040BC
Q601	OB06013A	Transistor 2SA733
Q602	OB06100A	Transistor 2SC945 (A)
D601-609	OB06181A	Silicon Diode 1SS53 (9 pcs.)
VR601	OB07270A	Semi-fixed Volume 20K
R601,605	OB01888A	Carbon Resistor 10K ERD-25T J
607,611		
612,615		
616,629		
630		
R602,603	OB05641A	Carbon Resistor 47K ERD-25T J
631		
R604,622	OB01889A	Carbon Resistor 100K ERD-25T J
R608,609	OB05615A	Carbon Resistor 22K ERD-25T J
610,621		
623,624		
625,626		
627,628		
R613	OB09463A	Metal Film Resistor 110K SN14K2E F
R614	OB09203A	Metal Film Resistor 10K SN14K2E F
R617	OB01857A	Carbon Resistor 1K ERD-25T J
R618	OB09525A	Metal Film Resistor 70.6K SN14K2E F
R619	OB09524A	Metal Film Resistor 60.4K SN14K2E F
R620	OB09523A	Metal Film Resistor 13.7K SN14K2E F
C601	OB09414A	PP Capacitor 560P 100V G
C602	OB05657A	Tantalum Capacitor 4.7μ 16V
C603	OB09290A	Ceramic Capacitor 0.01μ 50V Z
C604	OB09191A	PP Capacitor 330P 50V K
C605	OB09285A	Ceramic Capacitor 330P 50V K
CN21	OBL8744A	7P-H Connector 200mm
CN38	OBL8734A	6P-T Connector F6P-HVQ
CN39	OBL8735A	11P-T Connector F11P-HVQ
CN40	OBL8733A	5P-T Connector F5P-HVQ

1.12. FL Indicator P.C.B. B Ass'y

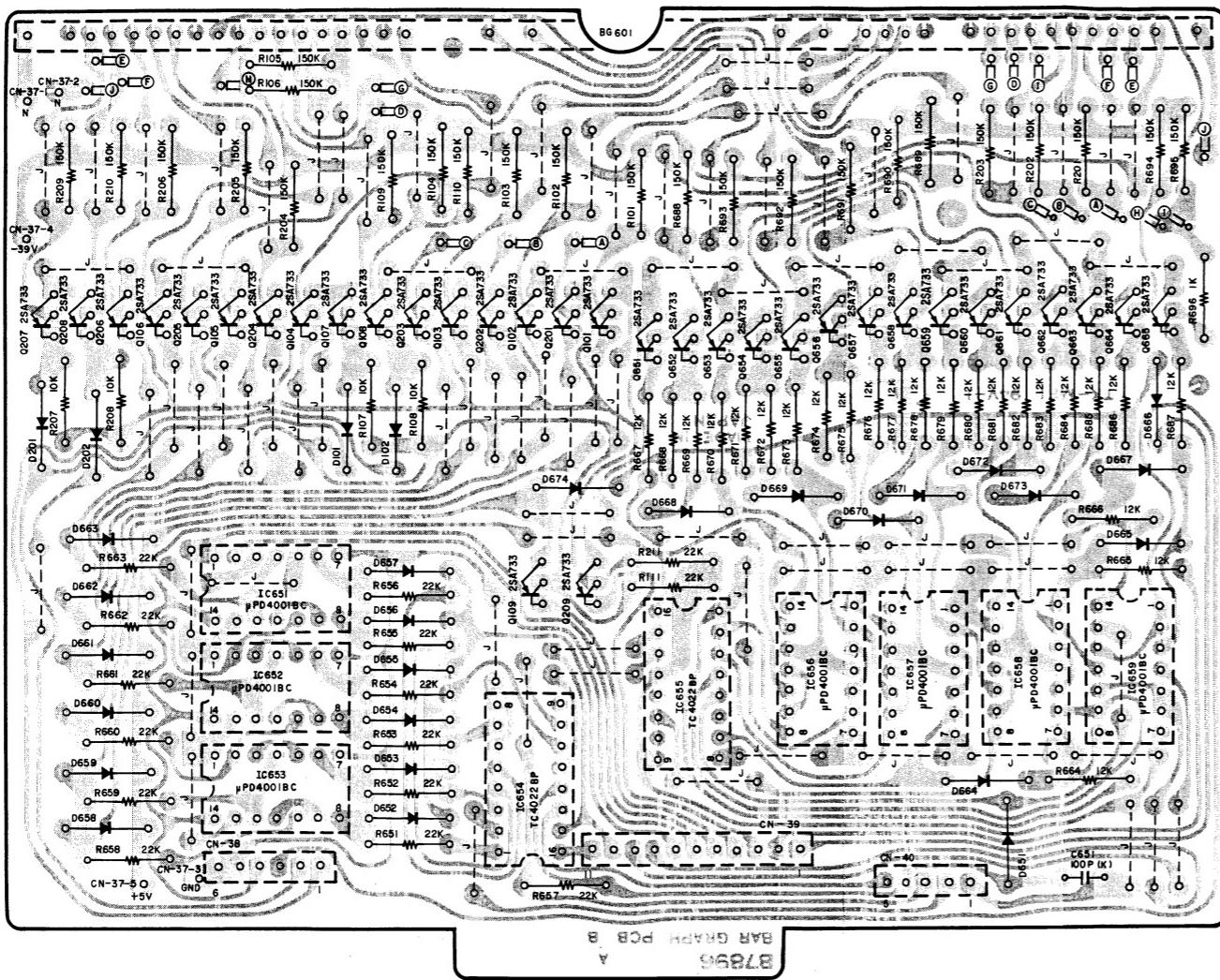


Fig. 1.12 Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description		
	BAL4246A	FL Indicator P.C.B. B Ass'y		
IC651-653 656-659	OB07896A	FL Indicator P.C.B. B		
IC654,655	OB06143A	IC	μPD4001BC	(7 pcs.)
Q101-109 201-209 651-665	OB06218A	IC	TC4022BP	
D101,102 201,202 651-674	OB06013A	Transistor	2SA733	(33 pcs.)
R101-106 109,110 201-206 209,210 688-695	OB06181A	Silicon Diode	1SS53	(28 pcs.)
R107,108 207,208	OB05626A	Carbon Resistor	150K	ERD-25T J (24 pcs.)
R111,211 651-663	OB01888A	Carbon Resistor	10K	ERD-25T J
R664-687	OB05615A	Carbon Resistor	22K	ERD-25T J (15 pcs.)
R696	OB09263A	Carbon Resistor	12K	ERD-25T J (24 pcs.)
C651	OB01857A	Carbon Resistor	1K	ERD-25T J
BG601	OB09282A	Ceramic Capacitor	100P	50V K
CN37	OB08717A	FL Indicator	FIP58BW18Y	
CN38	OBL8745A	5P-H Connector		
CN39	OBL8182A	6P-T Post		
CN40	OBL8253A	11P-T Post		
	OBL8183A	5P-T Post		

1.13. Detector P.C.B. Ass'y

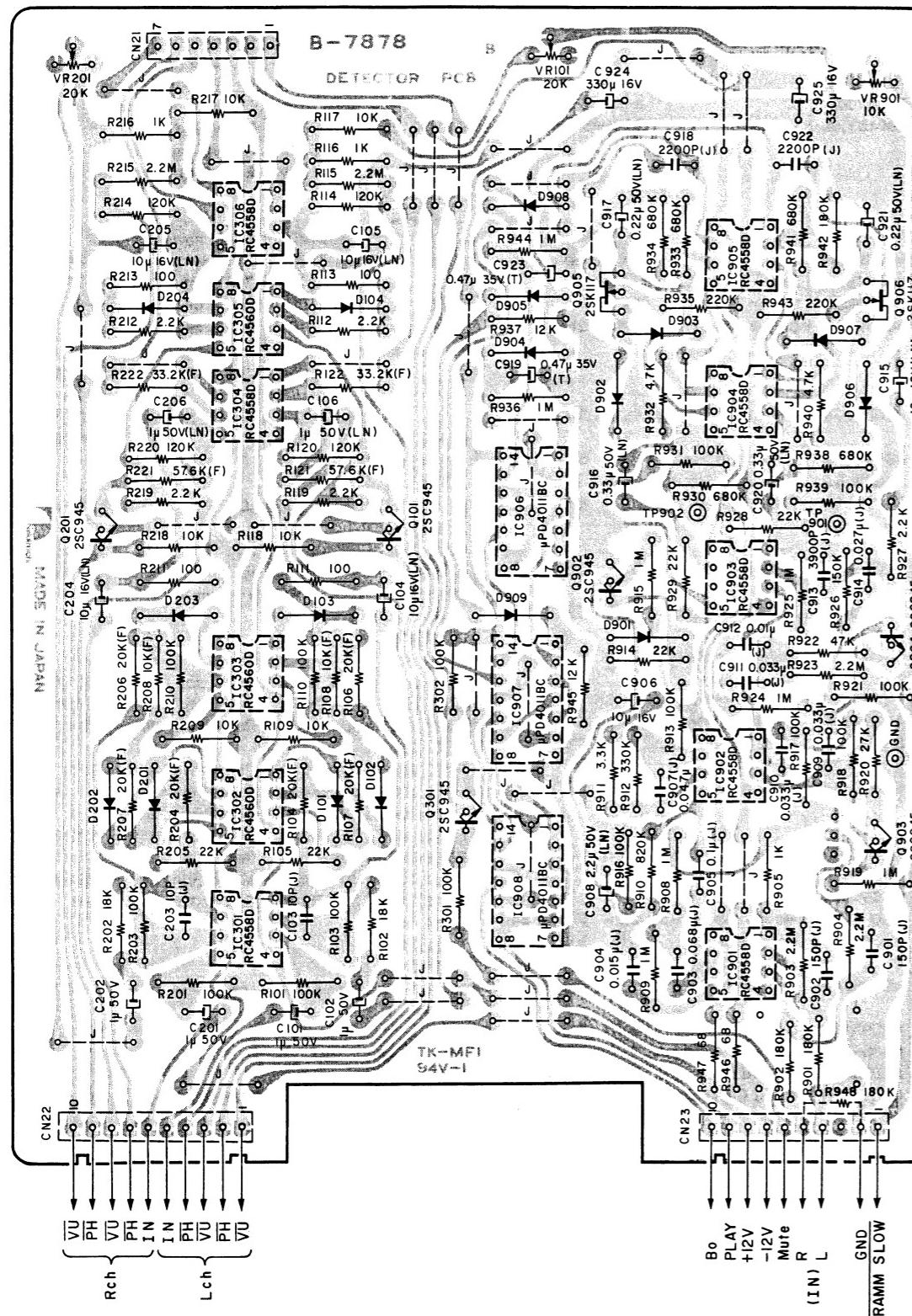
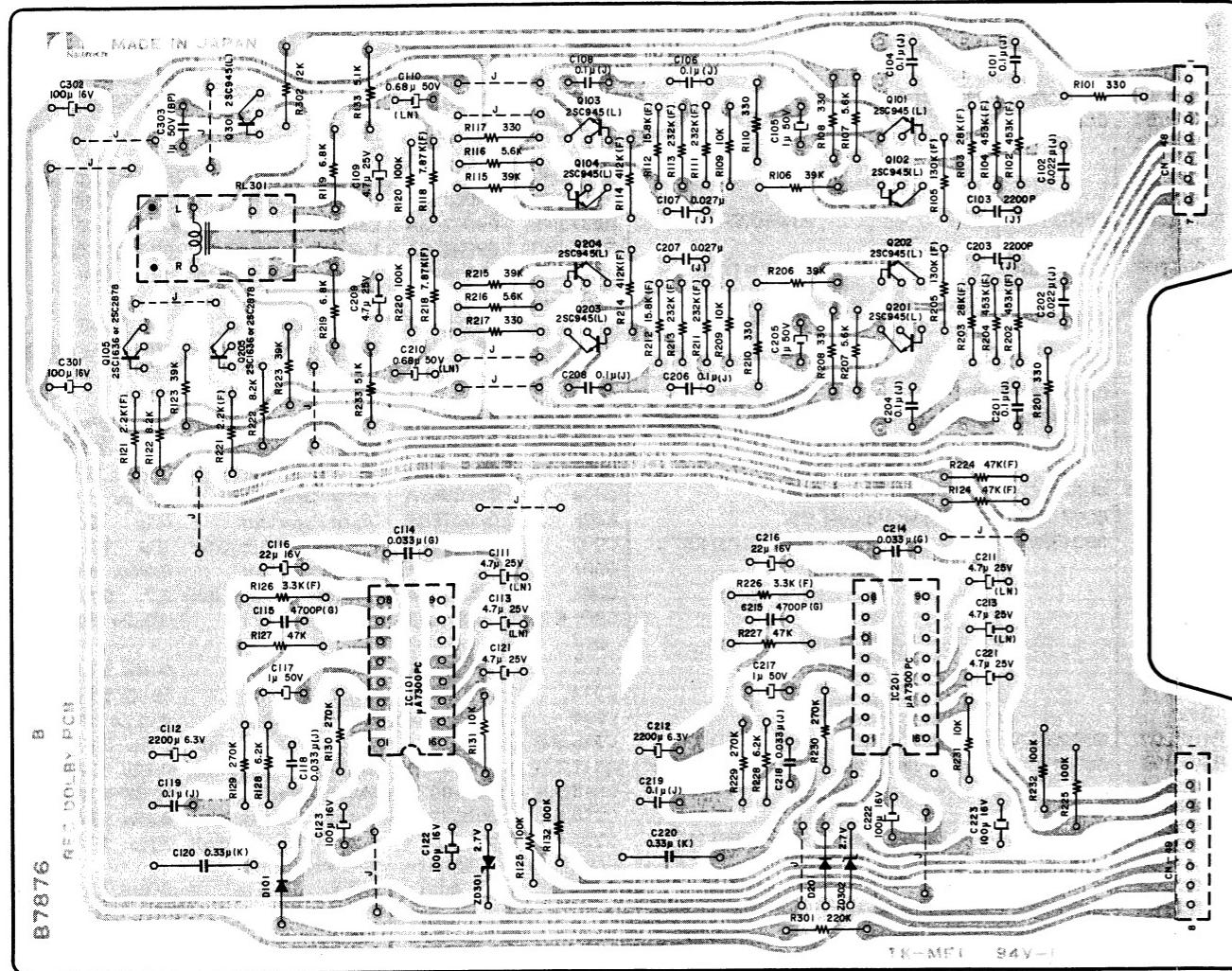


Fig. 1.13 Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
BAL4230A	Detector P.C.B. Ass'y		R922	OB05641A	Carbon Resistor 47K ERD-25T J
IC301,304	OB07878B	Detector P.C.B.	R926	OB05626A	Carbon Resistor 150K ERD-25T J
306,901	OB06124B	IC RC4558D	R930,933	OB09335A	Carbon Resistor 680K ERD-25T J
902,903			934,938		
904,905			941		
IC302,303	OB06217A	IC RC4560D	R932,940	OB01846A	Carbon Resistor 4.7K ERD-25T J
305			R935,943	OB05625A	Carbon Resistor 220K ERD-25T J
IC906,907	OB06178A	μPD4011BC	R937,945	OB09263A	Carbon Resistor 12K ERD-25T J
908			R946,947	OB09306A	Fail Safe Type Resistor 68 RDF-25S J
Q101,201	OB06100A	Transistor 2SC945 (A)	C101,102	OB01405A	Electrolytic Capacitor 1µ 50V
301,902			201,202		
903,904			C103,203	OB09277A	Ceramic Capacitor 10P 50V J
Q905,906	OB06129A	FET 2SK117 (Y)	C104,105	OB09148A	Electrolytic Capacitor 10µ 16V (LN)
D101-104	OB06181A	Silicon Diode 1SS53 (17 pcs.)	915		
201-204			C106,206	OB09223A	Electrolytic Capacitor 1µ 50V (LN)
901-909			C901,902	OB09281A	Ceramic Capacitor 150P 50V J
VR101,201	OB07215A	Semi-fixed Volume 20K	C903	OB05682A	Mylar Capacitor 0.068µ 50V J
VR901	OB07162A	Semi-fixed Volume 10K	C904	OB05557A	Mylar Capacitor 0.015µ 50V J
R101,103	OB01889A	Carbon Resistor 100K ERD-25T J	C905	OB01780A	Mylar Capacitor 0.1µ 50V J
110,201			C906	OB01412A	Electrolytic Capacitor 10µ 16V
203,210			C907	OB05796A	Mylar Capacitor 0.047µ 50V J
301,302			C908	OB09332A	Electrolytic Capacitor 2.2µ 50V (LN)
913,916			C909,910	OB05583A	Mylar Capacitor 0.033µ 50V J
917,918			911		
921,931			C912	OB05681A	Mylar Capacitor 0.01µ 50V J
939			C913	OB01804A	Mylar Capacitor 3900P 50V J
R102,202	OB05560A	Carbon Resistor 18K ERD-25T J	C914	OB09045A	Mylar Capacitor 0.027µ 50V J
R104,106	OB09439A	Metal Film Resistor 20K SN14K2E F	C916,920	OB09327A	Electrolytic Capacitor 0.33µ 50V (LN)
107,204			C917,921	OB09144A	Electrolytic Capacitor 0.22µ 50V (LN)
206,207			C918,922	OB01802A	Mylar Capacitor 2200P 50V J
R105,205	OB05615A	Carbon Resistor 22K ERD-25T J	C919,923	OB05792A	Tantalum Capacitor 0.47µ 35V
914,928			C924,925	OB01502A	Electrolytic Capacitor 330µ 16V
929			CN21	OBL8643A	7P-T Post
R108,208	OB09203A	Metal Film Resistor 10K SN14K2E F	CN22,23	OBL8731A	10P-S Connector F10P-SHVQ
R109,117	OB01888A	Carbon Resistor 10K ERD-25T J			
118,209					
217,218					
R111,113	OB01679A	Carbon Resistor 100 ERD-25T J			
211,213					
R112,119	OB05622A	Carbon Resistor 2.2K ERD-25T J			
212,219					
927					
R114,120	OB05621A	Carbon Resistor 120K ERD-25T J			
214,220					
R115,215	OB05671A	Carbon Resistor 2.2M ERD-25T J			
903,904					
923					
R116,216	OB01857A	Carbon Resistor 1K ERD-25T J			
905					
R121,221	OB09454A	Metal Film Resistor 57.6K SN14K2E F			
R122,222	OB09446A	Metal Film Resistor 33.2K SN14K2E F			
R901,902	OB05640A	Carbon Resistor 180K ERD-25T J			
942,948					
R908,909	OB05776A	Carbon Resistor 1M ERD-25T J			
915,919					
924,925					
936,944					
R910	OB09320A	Carbon Resistor 820K ERD-25T J			
R911	OB01681A	Carbon Resistor 3.3K ERD-25T J			
R912	OB05627A	Carbon Resistor 330K ERD-25T J			
R920	OB05743A	Carbon Resistor 27K ERD-25T J			

1.14. Record Dolby NR P.C.B. Ass'y



Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BAL4236A	Record Dolby NR P.C.B. Ass'y	C112,212	OB09257A	Electrolytic Capacitor 2200 μ 6.3V
	OB07876B	Record Dolby NR P.C.B.	C114,214	OB09240A	PP Capacitor 0.033 μ 50V G
	OB06200A	IC μ A7300PC	C115,215	OB09191A	PP Capacitor 4700P 50V G
	OB01872A	Transistor 2SC945 (L)	C116,216	OB01862A	Electrolytic Capacitor 22 μ 16V
IC101,201			C118,218	OB05583A	Mylar Capacitor 0.033 μ 50V J
Q101,102			C120,220	OB09399A	Mylar Capacitor 0.33 μ 100V K
103,104			C122,223	OB01400A	Electrolytic Capacitor 100 μ 16V
201,202			301,302		
203,204					
301					
Q105,205	OB06070A (OB06299A)	Transistor 2SC1636 (2SC2878)	C303	OB09187A	Electrolytic Capacitor 1 μ 50V (BP)
ZD301,302	OB06191A	Zener Diode 2.7V 2.7EB	RL301	OB07326A	FBR Relay 12V
D101,201	OB01909A	Silicon Diode 1S1555	CN48	OBBL8729A	7P-S Connector F7P-SHVQ
R101,108	OB05577A	Carbon Resistor 330 ERD-25T J	CN49	OBBL8730A	8P-S Connector F8P-SHVQ
110,117			OB08714A		IC Socket 16P (2 pcs.)
201,208					
210,217					
R102,104	OB09480A	Metal Film Resistor 453K SN14K2E F	BAL4231A		Record Eq. Amp. P.C.B. Ass'y
202,204					
R103,203	OB09445A	Metal Film Resistor 28K SN14K2E F	IC101,102	OB07877A	Record Eq. Amp. P.C.B.
R105,205	OB09466A	Metal Film Resistor 130K SN14K2E F	201,202	OB06144A	IC μ PD4066BC
R106,115	OB01854A	Carbon Resistor 39K ERD-25T J	304,305		
123,206			IC103,203	OB06261A	IC μ PD4508BC
215,223			306,307		
R107,116	OB01887A	Carbon Resistor 5.6K ERD-25T J	IC301,302	OB06146A	IC RC4558DD
207,216			IC303	OB06287A	IC RC4558DD MC
R109,131	OB01888A	Carbon Resistor 10K ERD-25T J	Q101,102	OB01872A	Transistor 2SC945 (L)
209,231			103,104		
R111,113	OB09473A	Metal Film Resistor 232K SN14K2E F	201,202		
211,213			203,204		
R112,212	OB09437A	Metal Film Resistor 15.8K SN14K2E F	Q105,205	OB06013A	Transistor 2SA733
R114,214	OB09478A	Metal Film Resistor 412K SN14K2E F	L101,201	OB00068A	Trap Coil 10.5mH
R118,218	OB09430A	Metal Film Resistor 7.87K SN14K2E F	R101,121	OB05560A	Carbon Resistor 18K ERD-25T J
R119,219	OB01682A	Carbon Resistor 6.8K ERD-25T J	201,221		
R120,125	OB01888A	Carbon Resistor 100K ERD-25T J	R102,202	OB05621A	Carbon Resistor 120K ERD-25T J
132,220			R103,203	OB09442A	Metal Film Resistor 22.3K SN14K2E F
225,232			R104,204	OB09229A	Metal Film Resistor 18K SN14K2E F
R121,221	OB09420A	Metal Film Resistor 2.2K SN14K2E F	R105,205	OB09464A	Metal Film Resistor 121K SN14K2E F
R122,222	OB01856A	Carbon Resistor 8.2K ERD-25T J	R106,206	OB09454A	Metal Film Resistor 57.6K SN14K2E F
R124,224	OB09451A	Metal Film Resistor 47K SN14K2E F	R107,207	OB09443A	Metal Film Resistor 26.4K SN14K2E F
R126,226	OB09317A	Metal Film Resistor 3.3K SN14K2E F	R108,111	OB05508A	Carbon Resistor 56K ERD-25T J
R127,227	OB05641A	Carbon Resistor 47K ERD-25T J	114,142		
R128,228	OB09271A	Carbon Resistor 6.2K ERD-25T J	208,211		
R129,130	OB05620A	Carbon Resistor 270K ERD-25T J	214,242		
229,230			R109,112	OB05626A	Carbon Resistor 150K ERD-25T J
R133,233	OB09314A	Carbon Resistor 5.1K ERD-25T J	115,119		
R301	OB05625A	Carbon Resistor 220K ERD-25T J	143,209		
R302	OB09263A	Carbon Resistor 12K ERD-25T J	212,215		
C101,104	OB01780A	Mylar Capacitor 0.1 μ 50V J	219,243		
106,108			R110,113	OB01854A	Carbon Resistor 39K ERD-25T J
119,201			116,144		
204,206			145,210		
208,219			213,216		
C102,202	OB05582A	Mylar Capacitor 0.022 μ 50V J	244,245		
C103,203	OB01802A	Mylar Capacitor 2200P 50V J	R117,217	OB09428A	Metal Film Resistor 5.76K SN14K2E F
C105,117	OB01405A	Electrolytic Capacitor 1 μ 50V	R118,218	OB05577A	Carbon Resistor 330 ERD-25T J
205,217			R120,220	OB05743A	Carbon Resistor 27K ERD-25T J
C107,207	OB09045A	Mylar Capacitor 0.027 μ 50V J	R122,131	OB09203A	Metal Film Resistor 10K SN14K2E F
C109,121	OB01402A	Electrolytic Capacitor 4.7 μ 25V	222,231		
209,221			R123,223	OB05620A	Carbon Resistor 270K ERD-25T J
C110,210	OB09395A	Electrolytic Capacitor 0.68 μ 50V (LN)	R124,224	OB09466A	Metal Film Resistor 130K SN14K2E F
C111,113	OB09333A	Electrolytic Capacitor 4.7 μ 25V (LN)	R125,225	OB09298A	Metal Film Resistor 64.9K SN14K2E F
211,213			R126,226	OB09446A	Metal Film Resistor 33.2K SN14K2E F
			R127,227	OB09438A	Metal Film Resistor 16.5K SN14K2E F

Schematic Ref. No.	Part No.	Description
R128,228	OB09431A	Metal Film Resistor 8.06K SN14K2E F
R129,229	OB09423A	Metal Film Resistor 4.02K SN14K2E F
R130,230	OB09419A	Metal Film Resistor 2K SN14K2E F
R132,232	OB09436A	Metal Film Resistor 14K SN14K2E F
R133,233	OB09335A	Carbon Resistor 680K ERD-25T J
R134,234	OB09380A	Carbon Resistor 1.5M ERD-25T J
R135,235	OB05962A	Carbon Resistor 1.2M ERD-25T J
R136,236	OB09357A	Metal Film Resistor 33K SN14K2E F
R137,237	OB09391A	Carbon Resistor 91K ERD-25T J
R138,238	OB05675A	Carbon Resistor 3.9K ERD-25T J
R139,239	OB01680A	Carbon Resistor 820 ERD-25T J
R140,240	OB05641A	Carbon Resistor 47K ERD-25T J
R141,241	OB05622A	Carbon Resistor 2.2K ERD-25T J
R146,246	OB05627A	Carbon Resistor 330K ERD-25T J
R147-154	OB05625A	Carbon Resistor 220K ERD-25T J
247-254		(24 pcs.)
303-310		
R301,302	OB09049A	Fail Safe Type Resistor 22 ERD-14F J
C101,201	OB09045A	Mylar Capacitor 0.027μ 50V J
C102,202	OB09223A	Electrolytic Capacitor 1μ 50V (LN)
C103,119	OB09403A	PP Capacitor 620P 100V J
203,219		
C104,204	OB05687A	Mylar Capacitor 1200P 50V J
C105,205	OB01802A	Mylar Capacitor 2200P 50V J
C106,206	OB05636A	Tantalum Capacitor 22μ 16V
C107,207	OB09247A	Mica Capacitor 220P 50V J
C108,110	OB09488A	Ceramic Capacitor 30P 50V J
208,210		
C109,209	OB09484A	PP Capacitor 470P 100V G
C111,211	OB09408A	PP Capacitor 1000P 100V G
C112,212	OB09485A	PP Capacitor 680P 100V G
C113,213	OB09486A	Mica Capacitor 120P 50V J
C114,214	OB09397A	Electrolytic Capacitor 470μ 10V (LN)
C115,215	OB09412A	PP Capacitor 0.011μ 100V G
C116,216	OB09094A	Tantalum Capacitor 1μ 50V
C117,217	OB09375A	Electrolytic Capacitor 47μ 10V (LN)
C118,218	OB05909A	Mylar Capacitor 0.12μ 50V J
C120,220	OB09189A	Mylar Capacitor 2700P 50V J
C121,221	OB01913A	Mylar Capacitor 1800P 50V J
C301,302	OB01502A	Electrolytic Capacitor 330μ 16V
CN45,46	OB08727A	5P-S Connector F5P-SHVQ
CN51	OBLS644A	8P-T Post
CN52	OBLS654A	4P-T Post

1.15. Record Eq. Amp. P.C.B. Ass'y

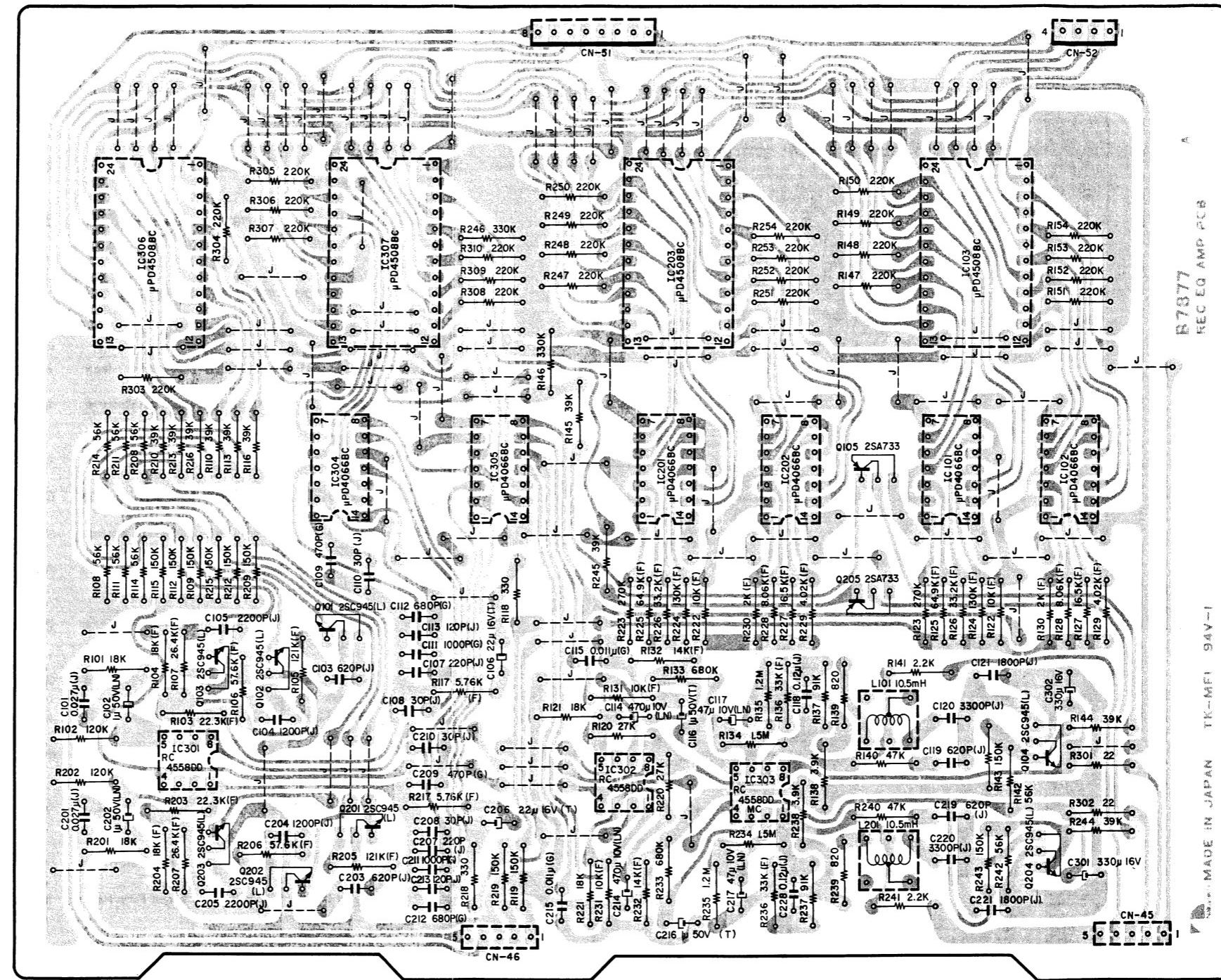


Fig. 1.15

Note: Diode is 1SS53 unless otherwise specified.

1.16. MIC Amp. and Volume P.C.B. Ass'y

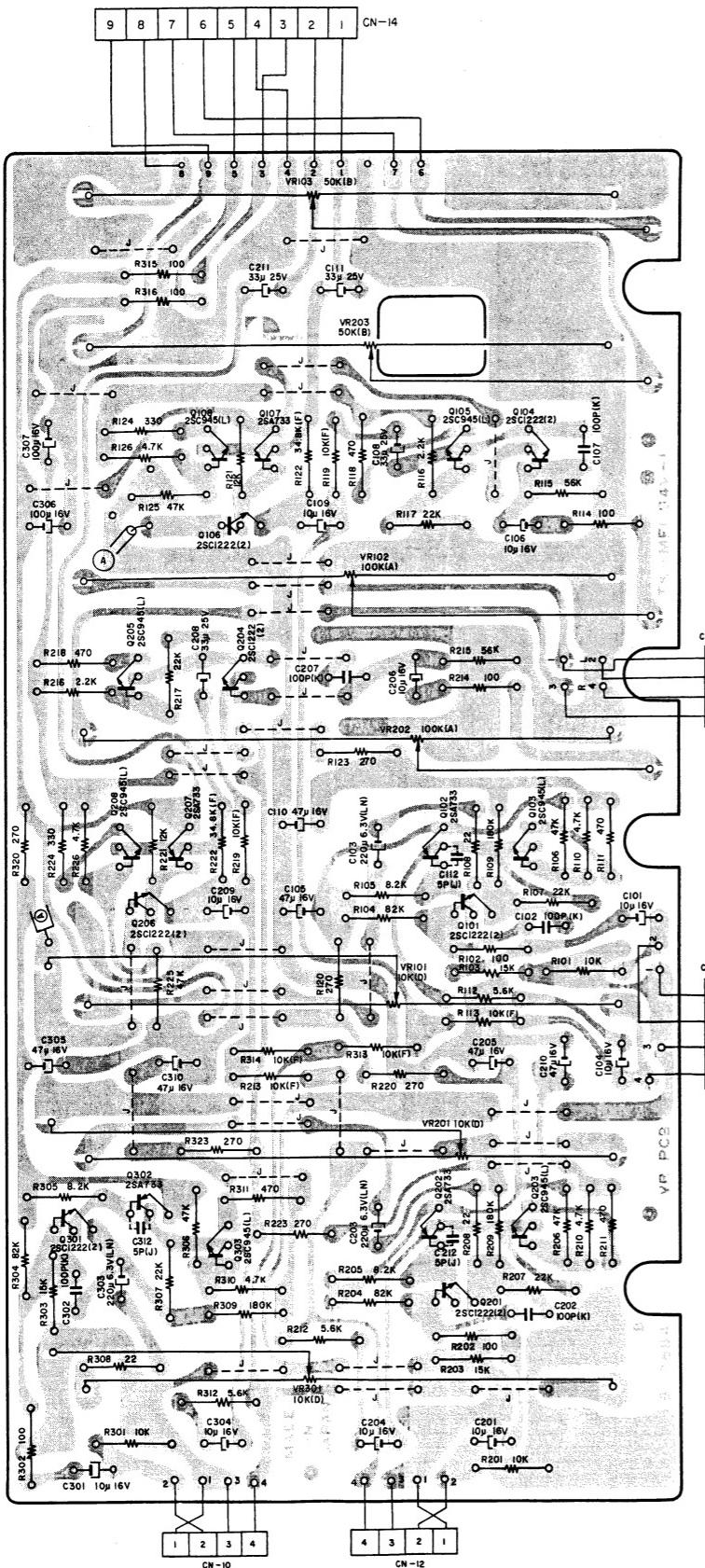


Fig. 1.16

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BAL4232A	MIC Amp. and Volume P.C.B. Ass'y	C102,107	OB09282A	Ceramic Capacitor 100P 50V K
Q101,104	OB07884B	MIC Amp. and Volume P.C.B.	202,207		
106,201	OB06062A	Transistor 2SC1222 (2)	302	OB09151A	Electrolytic Capacitor 220μ 6.3V(LN)
204,206			303	OB01403A	Electrolytic Capacitor 47μ 16V
301			C105,110		
Q102,107	OB06013A	Transistor 2SA733	205,210		
202,207			305,310		
302			C108,111	OB09251A	Electrolytic Capacitor 33μ 25V
Q103,105	OB01872A	Transistor 2SC945 (L)	208,211		
108,203			C112,212	OB09276A	Ceramic Capacitor 5P 50V J
205,208			312		
303			C306,307	OB01400A	Electrolytic Capacitor 100μ 16V
VR101,201	OB07331A	Slide Volume 10K (D)	CN10	OBLS754A	4P-H Connector 520mm
301			CN11	OBLS779A	4P-H Connector
VR102,202	OB07332A	Slide Volume 100K (A)	CN12	OBLS780A	4P-H Connector
VR103,203	OB07333A	Slide Volume 50K (B)	CN13	OBLS755A	4P-H Connector 320mm
R101,201	OB01888A	Carbon Resistor 10K ERD-25T J	CN14	OBLS753B	9P-H Connector 320mm
301				BAL4235A	Playback Amp. and Dolby NR P.C.B. Ass'y
R102,202	OB01679A	Carbon Resistor 100 ERD-25T J			
114,214				OB07875C	Playback Amp. and Dolby NR P.C.B.
302			IC101,201	OB06200A	μA7300PC
R103,203	OB01683A	Carbon Resistor 15K ERD-25T J	IC301	OB06205A	IC RC4559DD
303			Q101,201	OB06257A	FET 2SK240 (BL)
R104,204	OB05668A	Carbon Resistor 82K ERD-25T J	(OB06300A)		(2SK146 (V))
304			Q102,103	OB01872A	Transistor 2SC945 (L)
R105,205	OB01856A	Carbon Resistor 8.2K ERD-25T J	104,202		
305			203,204	ZD301,302	Zener Diode 2.7V 2.7EB
R106,125	OB05641A	Carbon Resistor 47K ERD-25T J	ZD303,304	OB06191A	Zener Diode 10V RD10EB3
206,225			D101,201	OB06233A	Silicon Diode 1S1555
306			L101,201	OB01909A	Inductor 1.05mH
R107,117	OB05615A	Carbon Resistor 22K ERD-25T J	L102,202	OB006636A	Inductor 10.5mH
207,217			L103,203	OB00068A	Trap Coil 36mH
307			VR101,201	OB03919B	Semi-fixed Volume 200
R108,208	OB05579A	Carbon Resistor 22 ERD-25T J	VR102,202	OB07353A	Semi-fixed Volume 10K
308			R101,124	OB07162A	Carbon Resistor 22K ERD-25T J
R109,209	OB05640A	Carbon Resistor 180K ERD-25T J	201,224	OB05615A	Metal Film Resistor 3.3K SN14K2E F
309			R102,202	OB09317A	Carbon Resistor 4.7K ERD-25T J
R110,126	OB01846A	Carbon Resistor 4.7K ERD-25T J	R103,107	OB01846A	Metal Film Resistor 3.16K SN14K2E F
210,226			203,207	OB01933A	Carbon Resistor 220 ERD-25T J
310			R104,204	OB09415A	Metal Film Resistor 68 SN14K2E F
R111,118	OB05576A	Carbon Resistor 470 ERD-25T J	R105,205	OB09422A	Metal Film Resistor 523K SN14K2E F
211,218			R106,122	OB01889A	Carbon Resistor 100K ERD-25T J
311			208,232	OB09521A	Carbon Resistor 56K ERD-25T J
R112,212	OB01887A	Carbon Resistor 5.6K ERD-25T J	R109,209	OB09205A	Carbon Resistor 18K SN14K2E F
312			R110,210	OB01857A	Carbon Resistor 1K ERD-25T J
R113,119	OB09203A	Metal Film Resistor 10K SN14K2E F	113,211		
213,219			212,213		
313,314			R114,116	OB09520A	Carbon Resistor 620K ERD-25T J
R115,215	OB05508A	Carbon Resistor 56K ERD-25T J	214,216		
R116,216	OB05622A	Carbon Resistor 2.2K ERD-25T J	R115,128	OB05620A	Carbon Resistor 270K ERD-25T J
R120,123	OB05645A	Carbon Resistor 270 ERD-25T J	130,215		
220,223			228,230		
320,323			R117,217	OB05676A	Carbon Resistor 390K ERD-25T J
R121,221	OB09263A	Carbon Resistor 12K ERD-25T J	R118,218	OB01854A	Carbon Resistor 39K ERD-25T J
R122,222	OB09447A	Metal Film Resistor 34.8K SN14K2E F	R119,219	OB01887A	Carbon Resistor 5.6K ERD-25T J
R124,224	OB05577A	Carbon Resistor 330 ERD-25T J	R120,220	OB05577A	Carbon Resistor 330 ERD-25T J
R315,316	OB09215A	Fail Safe Type Resistor 100 RDF-25S J	R121,221	OB09421A	Metal Film Resistor 2.67K SN14K2E F
C101,104	OB01412A	Electrolytic Capacitor 10μ 16V			
106,109					
201,204					
206,209					
301,304					

Schematic Ref. No.	Part No.	Description
R123,127 223,227	OB05641A	Carbon Resistor 47K ERD-25T J
R125,131 225,231	OB01888A	Carbon Resistor 10K ERD-25T J
R126,226	OB09317A	Metal Film Resistor 3.3K SN14K2E F
R129,229	OB09271A	Carbon Resistor 6.2K ERD-25T J
R133,233	OB05671A	Carbon Resistor 2.2M ERD-25T J
R134,234	OB05558A	Carbon Resistor 100 ERD-25V J
R301	OB05625A	Carbon Resistor 220K ERD-25T J
R303,304	OB09306A	Fail Safe Type Resistor 68 RDF-25S J
C101,201	OB09486A	Mica Capacitor 120P 50V J
C102,202	OB05681A	Mylar Capacitor 0.01 μ 50V J
C103,203	OB09152A	Electrolytic Capacitor 470 μ 6.3V (LN)
C104,204	OB09489A	PP Capacitor 5600P 100V G
C105,205	OB05550A	Mylar Capacitor 1000P 50V J
C106,206	OB09345A	Electrolytic Capacitor 3.3 μ 25V (BP)
C107,108 128,129 207,208 228,229 303,304 305,306	OB01400A	Electrolytic Capacitor 100 μ 16V
C109,209	OB09410A	PP Capacitor 2200P 100V J
C110,113 210,213	OB09189A	Mylar Capacitor 2700P 50V J
C111,211	OB09275A	Mica Capacitor 200P 50V J
C112,212	OB09235A	PP Capacitor 680P 100V J
C114,116 214,216	OB05813A	Mylar Capacitor 0.056 μ 50V J
C115,126 215,226	OB01780A	Mylar Capacitor 0.1 μ 50V J
C117,217 C118,122 218,222	OB09413A OB09333A	PP Capacitor 0.022 μ 100V G Electrolytic Capacitor 4.7 μ 25V (LN)
C119,219 C120,220	OB09257A OB09240A	Electrolytic Capacitor 2200 μ 6.3V PP Capacitor 0.033 μ 100V G
C121,221	OB09191A	PP Capacitor 4700P 100V G
C123,223	OB01862A	Electrolytic Capacitor 22 μ 16V
C124,224	OB01405A	Electrolytic Capacitor 1 μ 50V
C125,225	OB05583A	Mylar Capacitor 0.033 μ 50V J
C127,227	OB09399A	Mylar Capacitor 0.33 μ 100V K
C130,230	OB09400A	Mica Capacitor 250P 50V J
C131,231	OB09270A	PP Capacitor 470P 50V J
C301,302	OB01412A	Electrolytic Capacitor 10 μ 16V
CN46	OBL8727A	5P-S Connector F5P-SHVQ
CN47	OBL8728A	6P-S Connector F6P-SHVQ
CN53	OBL8654A	4P-T Post
	OB08714A	IC Socket 16P (2 pcs.)

1.17. Playback Amp. and Dolby NR P.C.B. Ass'y

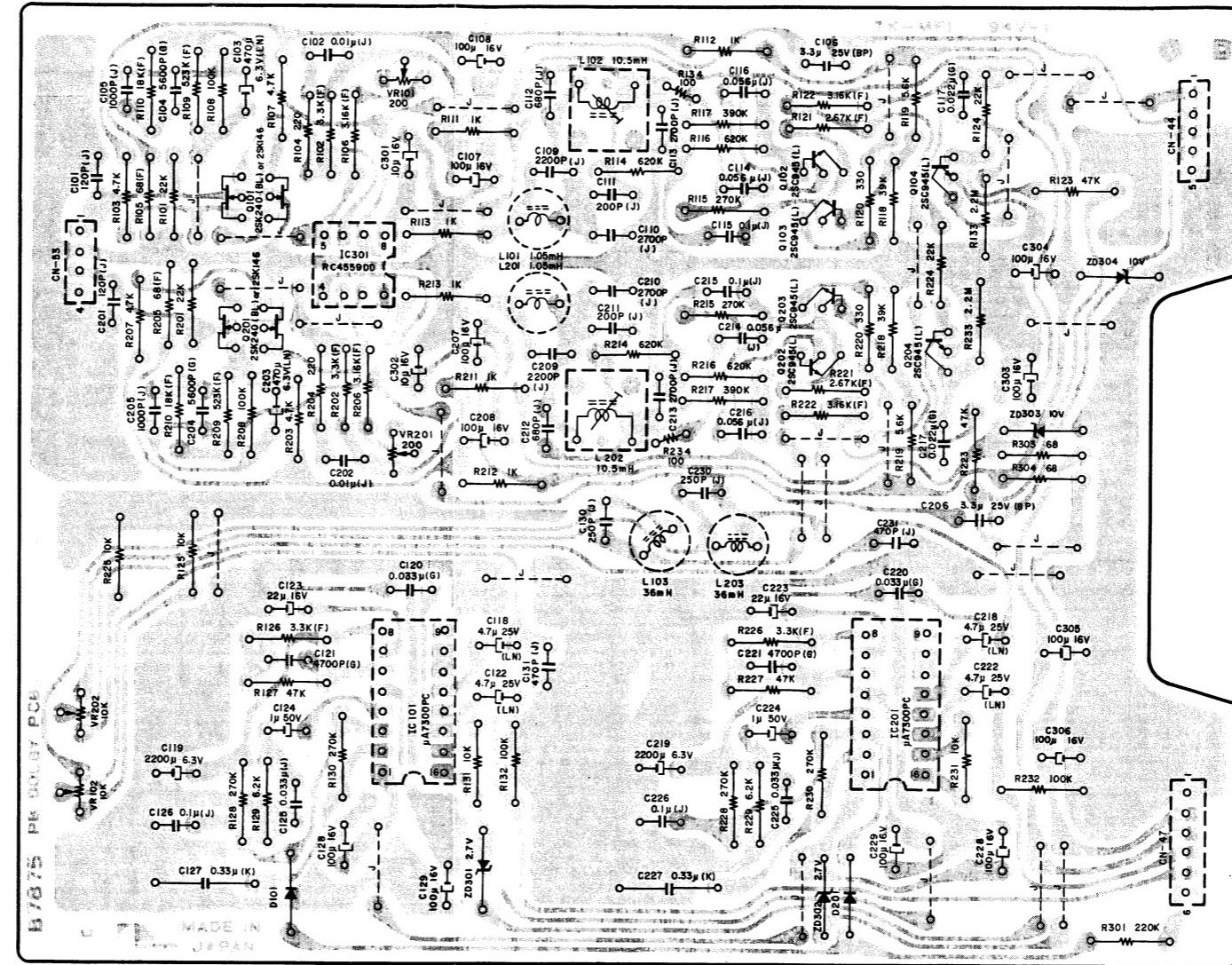
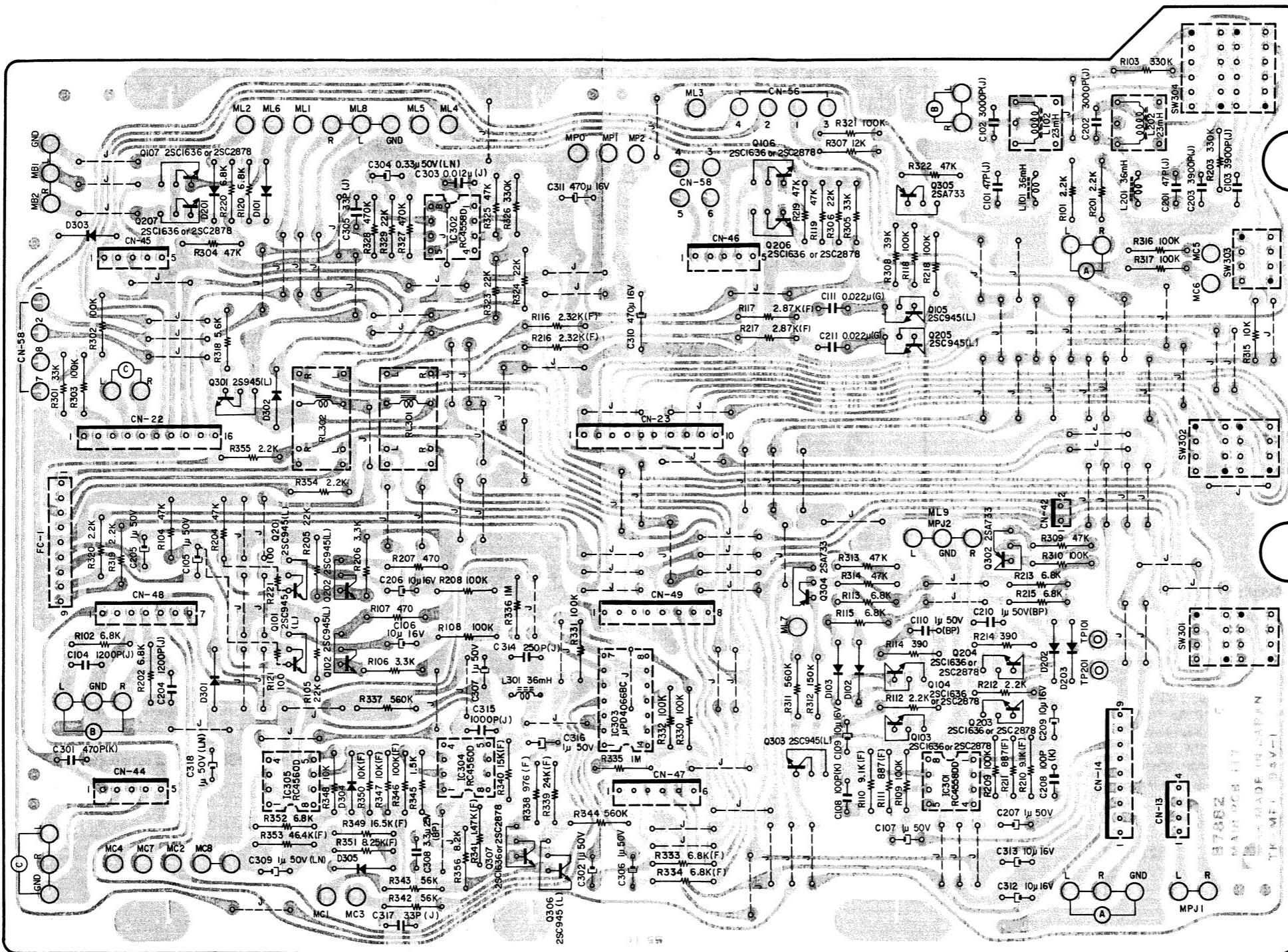


Fig. 1.17

Note: Diode is 1SS53 unless otherwise specified.

1.18. Main P.C.B. Ass'y



Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BAL4227A	Main P.C.B. Ass'y	R311,337 344	OB05784A	Carbon Resistor 560K ERD-25T J
IC301	OB07882C	Main P.C.B.	R312	OB05626A	Carbon Resistor 150K ERD-25T J
IC302	OB06146A	IC RC4558DD	R315,348	OB01888A	Carbon Resistor 10K ERD-25T J
IC303	OB06124B	IC RC4558D	R318	OB01887A	Carbon Resistor 5.6K ERD-25T J
IC304,305	OB06144A	IC μ PD4066BC	R327,328	OB01684A	Carbon Resistor 470K ERD-25T J
Q101,102	OB06217A	IC RC4560D	R333,334	OB09529A	Metal Film Resistor 6.8K SN14K2E F
105,201	OB01872A	Transistor 2SC945 (L.)	R335,336	OB05776A	Carbon Resistor 1M ERD-25T J
202,205			R338	OB09416A	Metal Film Resistor 976 SN14K2E F
301,303			R339	OB09005A	Metal Film Resistor 24K SN14K2E F
306			R340	OB09340A	Metal Film Resistor 15K SN14K2E F
Q103,104	OB06070A (OB06299A)	Transistor 2SC1636 (2SC2878)	R342,343	OB05508A	Carbon Resistor 56K ERD-25T J
106,107			R345	OB05698A	Carbon Resistor 1.5K ERD-25T J
203,204			R346	OB09305A	Metal Film Resistor 100K SN14K2E F
206,207			R347,350	OB09203A	Metal Film Resistor 10K SN14K2E F
307			R349	OB09438A	Metal Film Resistor 16.5K SN14K2E F
Q302,304	OB06013A	Transistor 2SA733	R351	OB09432A	Metal Film Resistor 8.25K SN14K2E F
305			R353	OB09450A	Metal Film Resistor 46.4K SN14K2E F
D101-103	OB06181A	Silicon Diode 1SS53 (11 pcs.)	R356	OB01856A	Carbon Resistor 8.2K ERD-25T J
201-203			C101,201	OB09242A	Mica Capacitor 47P 50V J
301-305			C102,202	OB09262A	PP Capacitor 3000P 50V J
L101,201	OB03919B	Inductor 36mH	C103,203	OB01804A	Mylar Capacitor 3900P 50V J
301			C104,204	OB05687A	Mylar Capacitor 1200P 50V J
L102,202	OB03563A	19K Coil	C105,107	OB01405A	Electrolytic Capacitor 1 μ 50V
R101,112	OB05622A	Carbon Resistor 2.2K ERD-25T J	205,207		
201,212			302,306		
319,320			307,316		
354,355			C106,109	OB01412A	Electrolytic Capacitor 10 μ 16V
R102,113	OB01682A	Carbon Resistor 6.8K ERD-25T J	206,209		
115,120			312,313		
202,213			C108,208	OB09282A	Ceramic Capacitor 100P 50V K
215,220			C110,210	OB09187A	Electrolytic Capacitor 1 μ 50V (BP)
352			C111,211	OB09413A	PP Capacitor 0.022 μ 100V G
R103,203	OB05627A	Carbon Resistor 330K ERD-25T J	C301	OB09286A	Ceramic Capacitor 470P 50V K
326			C303	OB05843A	Mylar Capacitor 0.012 μ 50V J
R104,119	OB05641A	Carbon Resistor 47K ERD-25T J	C304	OB09385A	Electrolytic Capacitor 0.33 μ 50V (LN)
204,219			C305,317	OB09370A	Ceramic Capacitor 33P 50V J
304,309			C308	OB09345A	Electrolytic Capacitor 3.3 μ 25V (BP)
313,314			C309,318	OB09223A	Electrolytic Capacitor 1 μ 50V (LN)
322,325			C310,311	OB01392A	Electrolytic Capacitor 470 μ 16V
R105,205	OB05615A	Carbon Resistor 22K ERD-25T J	C314	OB09400A	Mica Capacitor 250P 50V J
306,323			C315	OB05550A	Mylar Capacitor 1000P 50V J
324,329			RL301,302	OB07326A	FBR Relay 12V
R106,206	OB01681A	Carbon Resistor 3.3K ERD-25T J	SW301	OB07324A	Rotary Switch 4-2N
R107,207	OB05576A	Carbon Resistor 470 ERD-25T J	SW302	OB07322A	Rotary Switch 4-2S
R108,109	OB01889A	Carbon Resistor 100K ERD-25T J	SW303	OB07323A	Rotary Switch 2-3N
118,208			SW304	OB07321A	Rotary Switch 4-4S
209,218			CN13	OBL8654A	4P-T Post
302,303			CN14	OBL8645A	9P-T Post
310,316			CN22,23	OBL8615A	10P-T Post B10P-SHF-1
317,321			CN42	OBL8656A	2P-T Post
330,331			CN44,45	OBL8183A	5P-T Post B5P-SHF-1
332			46		
R110,210	OB09328A	Metal Film Resistor 9.1K SN14K2E F	CN47	OBL8182A	6P-T Post B6P-SHF-1
R111,211	OB09550A	Metal Film Resistor 887 SN14K2E F	CN48	OBL8302A	7P-T Post B7P-SHF-1
R114,214	OB05691A	Carbon Resistor 390 ERD-25T J	CN49	OB8334A	8P-T Post B8P-SHF-1
R116,216	OB09468A	Metal Film Resistor 2.32K SN14K2E F	CN56	OB8736A	4P-H Connector 600mm
R117,217	OB09758A	Metal Film Resistor 2.87K SN14K2E F	CN58	OB8737A	8P-H Connector 500mm
R121,221	OB01679A	Carbon Resistor 100 ERD-25T J			
R301,305	OB05509A	Carbon Resistor 33K ERD-25T J			
R307	OB09263A	Carbon Resistor 12K ERD-25T J			
R308	OB01854A	Carbon Resistor 39K ERD-25T J			

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	
	BAL4244B	Logic P.C.B. Ass'y	R502,517 598,614 639,641	OB05625A	Carbon Resistor	220K ERD-25T J
IC301	OB07879C	Logic P.C.B.	R503	OB05577A	Carbon Resistor	330 ERD-25T J
IC501,505 510,513	OB06217A	IC RC4560D	R504,519	OB05509A	Carbon Resistor	33K ERD-25T J
IC502	OB06124B	IC RC4558D	536,597			
IC503,504	OB06143A	IC μ PD4001BC	647,648			
IC506	OB06263A	IC μ PD4012BC	649,650			
IC507,508 515,516	OB06219A	IC μ PD4081BC	666			
IC509	OB06178A	IC μ PD4011BC	R505	OB05743A	Carbon Resistor	27K ERD-25T J
IC511	OB06270A	IC μ PD4069C	R506,523	OB05776A	Carbon Resistor	1M ERD-25T J
IC512	OB06216A	IC μ PC4556C	555,616			
IC514	OB06213A	IC TC4013BP	629,630			
Q101,201 504,506 538	OB06244A	IC μ PD4073BC	632,633			
Q102,202 507,539	OB06066A	Transistor 2SD471	638,675			
Q501-503 508-520 523,525 527,528 530-536 540-542	OB06100A	Transistor 2SC945 (A) (30 pcs.)	682			
Q505	OB06303A	Transistor 2SB772	R507	OB05692A	Carbon Resistor	68K ERD-25T J
Q521,522 524,526 529,537	OB06013A	Transistor 2SA733	R508	OB05508A	Carbon Resistor	56K ERD-25T J
D501-558	OB01909A	Silicon Diode 1S1555 (58 pcs.)	R512,513	OB01856A	Carbon Resistor	8.2K ERD-25T J
VR501,504 505	OB07256A	Semi-fixed Volume 10K	R514	OB05622A	Carbon Resistor	2.2K ERD-25T J
VR502,503 507	OB07330A	Semi-fixed Volume 500K	R515,516	OB01887A	Carbon Resistor	5.6K ERD-25T J
VR506	OB07329A	Semi-fixed Volume 2K	655,656			
R101,102 201,202 509,511 529,530 531,537 539,547 565,566 591,593 600,607 608,609 611,622 627,640 642,653 654,664 677,678 679,680 681	OB01889A	Carbon Resistor 100K ERD-25T J	R518	OB09475A	Metal Film Resistor	316K SN14K2E F
R103,203	OB01706A	Carbon Resistor 47 ERD-25T J	R520	OB09457A	Metal Film Resistor	71.5K SN14K2E F
R104,204	OB09321A	Fail Safe Type Resistor 4.7 RDF-25S J	R521	OB09474A	Metal Film Resistor	280K SN14K2E F
R501,510 527,554 599,628 631,659 661,662 663,667 673	OB05671A	Carbon Resistor 2.2M ERD-25T J	R522,524	OB09453A	Metal Film Resistor	51.1K SN14K2E F
			R525,526	OB09305A	Metal Film Resistor	100K SN14K2E F
			R528	OB09452A	Metal Film Resistor	49.9K SN14K2E F
			R532	OB01846A	Carbon Resistor	4.7K ERD-25T J
			R533,538	OB01888A	Carbon Resistor	10K ERD-25T J
			R534,551 552	OB05668A	Carbon Resistor	82K ERD-25T J
			R535,545	OB01857A	Carbon Resistor	1K ERD-25T J
			553,643 644,676			
			R540	OB09217A	Fail Safe Type Resistor	5.6 RDF-25S J
			R542,544 546,548 549,550	OB01684A	Carbon Resistor	470K ERD-25T J
			623,636 637			
			R556,615	OB09335A	Carbon Resistor	680K ERD-25T J
			R557,559	OB05627A	Carbon Resistor	330K ERD-25T J (21 pcs.)
			583-590 592,596			
			601-605			
			645,646			
			672,674			
			R558	OB09440A	Metal Film Resistor	21.5K SN14K2E F
			R560	OB09300A	Metal Film Resistor	150K SN14K2E F
			R561	OB09471A	Metal Film Resistor	205K SN14K2E F
			R562	OB09438A	Metal Film Resistor	16.5K SN14K2E F
			R567,568 570,574	OB05560A	Carbon Resistor	18K ERD-25T J

Schematic Ref. No.	Part No.	Description			
R569,577	OB01683A	Carbon Resistor	15K	ERD-25T J	
R571,573	OB09216A	Fail Safe Type Resistor	10	RDF-25S J	
606,619					
626,635					
R572	OB09215A	Fail Safe Type Resistor	100	RDF-25S J	
R575,576	OB01681A	Carbon Resistor	3.3K	ERD-25T J	
683					
R578,579	OB05626A	Carbon Resistor	150K	ERD-25T J	
580,581					
R582,686	OB05784A	Carbon Resistor	560K	ERD-25T J	
R594,617	OB05615A	Carbon Resistor	22K	ERD-25T J	
620,621					
634,657					
671					
R610	OB05641A	Carbon Resistor	47K	ERD-25T J	
R625	OB09263A	Carbon Resistor	12K	ERD-25T J	
R665	OB01682A	Carbon Resistor	6.8K	ERD-25T J	
R668,669	OB05621A	Carbon Resistor	120K	ERD-25T J	
R687	OB05575A	Carbon Resistor	560	ERD-25T J	
C101,201	OB01405A	Electrolytic Capacitor	1 μ	50V	
504,508					
509,522					
523,542					
C501	OB01402A	Electrolytic Capacitor	4.7 μ	25V	
C502,503	OB09147A	Electrolytic Capacitor	3.3 μ	25V (LN)	
C505	OB09333A	Electrolytic Capacitor	4.7 μ	25V (LN)	
C506,530	OB05813A	Mylar Capacitor	0.056 μ	50V J	
531,543					
544					
C507	OB01502A	Electrolytic Capacitor	330 μ	16V	
C510	OB05512A	Electrolytic Capacitor	2.2 μ	16V	
C511,512	OB05652A	Mylar Capacitor	4700P	50V J	
513,514					
515					
C516	OB05583A	Mylar Capacitor	0.033 μ	50V J	
C517,533	OB01780A	Mylar Capacitor	0.1 μ	50V J	
C518,528	OB09223A	Electrolytic Capacitor	1 μ	50V (LN)	
529					
C519	OB09395A	Electrolytic Capacitor	0.68 μ	50V (LN)	
C520,521	OB05681A	Mylar Capacitor	0.01 μ	50V J	
C524,525	OB01802A	Mylar Capacitor	2200P	50V J	
C526,527	OB01412A	Electrolytic Capacitor	10 μ	16V	
534					
C532	OB09332A	Electrolytic Capacitor	2.2 μ	25V (LN)	
C535,536	OB01400A	Electrolytic Capacitor	100 μ	16V	
C537	OB09292A	Ceramic Capacitor	0.1 μ	50V Z	
C538	OB09277A	Ceramic Capacitor	10P	50V J	
C539	OB09377A	Electrolytic Capacitor	4700 μ	16V	
C540,541	OB09285A	Ceramic Capacitor	330P	50V K	
C545	OB01862A	Electrolytic Capacitor	22 μ	16V	
SW501,502	OB07323A	Rotary Switch	2-3N		
504					
SW503,505	OB07325A	Rotary Switch	2-2N		
CN29,30	OBL8178A	12P-T Post			
CN31	OBL8644A	8P-T Post			
CN32	OBL8643A	7P-T Post			
CN33	OBL8646A	10P-T Post			
CN34,35	OBL8653A	3P-T Post			
CN36	OBL8656A	2P-T Post			

1.19. Logic P.C.B. Ass'y

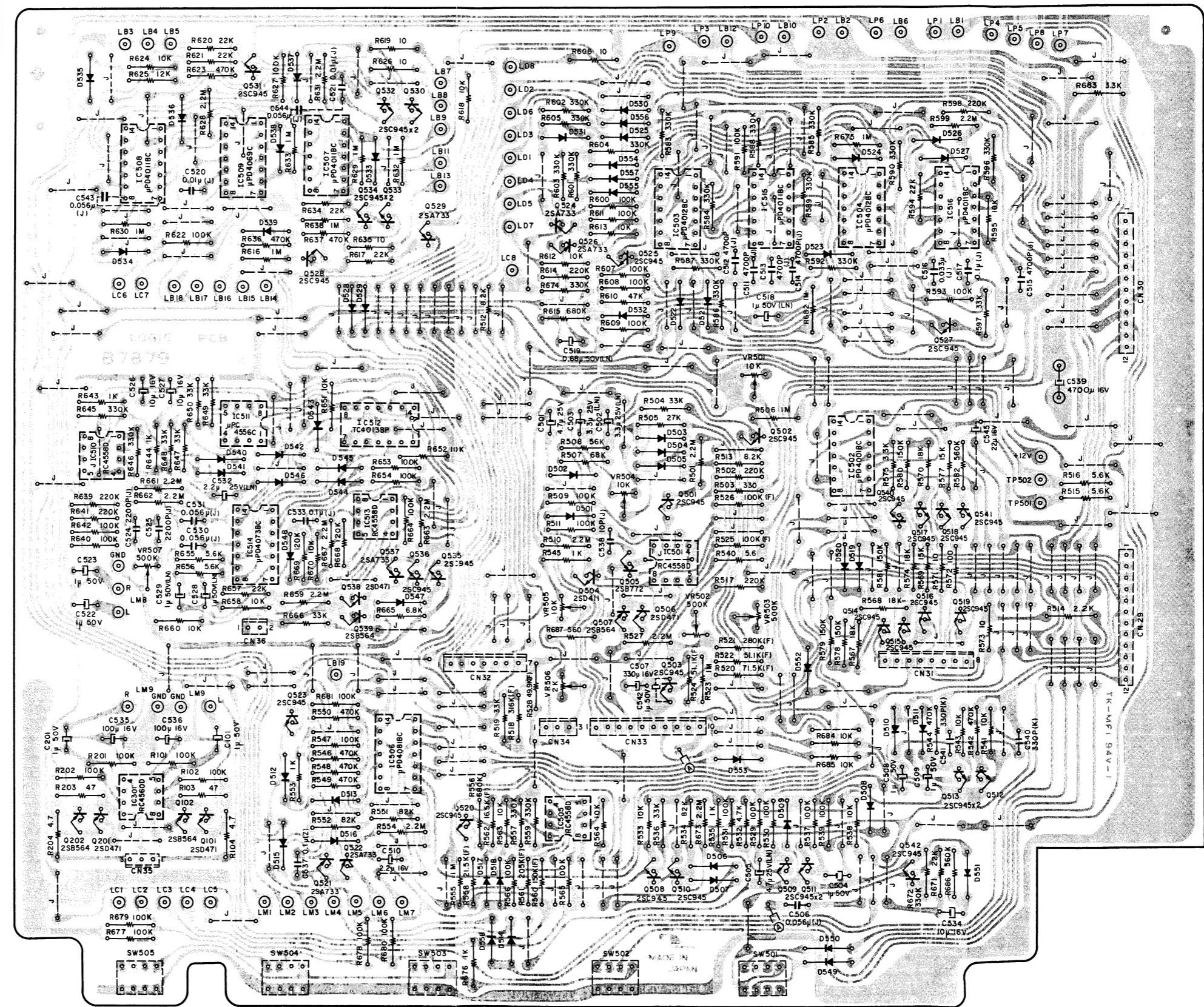


Fig. 1.19

Note: Diode is 1SS53 unless otherwise specified.

1.20. CPU P.C.B. A Ass'y

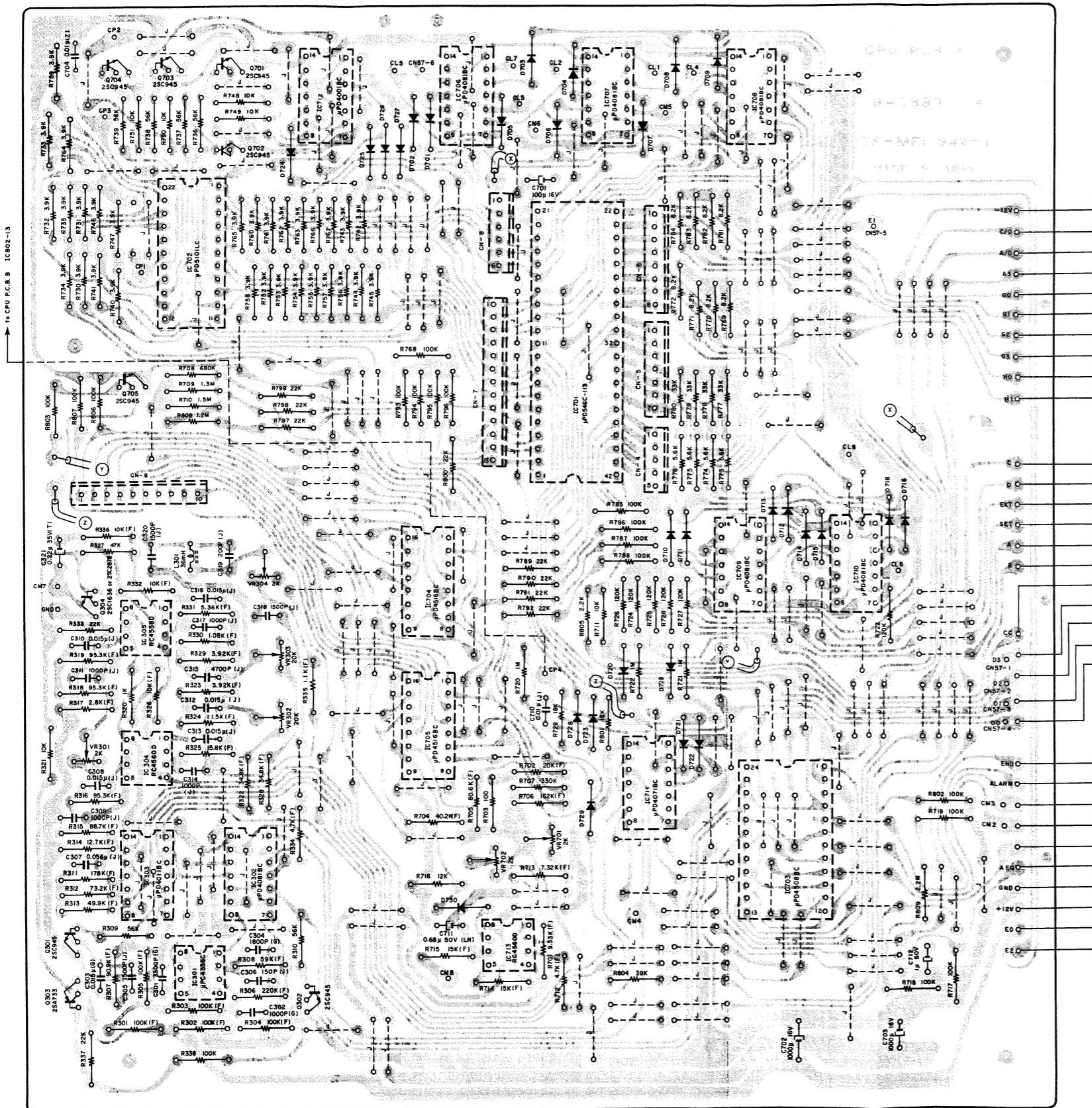


Fig. 1.20

Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description
BAL4228A		CPU P.C.B. A Ass'y
IC301	OB07880B	CPU P.C.B. A
IC302,706	OB06216A	IC
707,708	OB06219A	μ PC4556C
709,710		μ PD4081BC
IC303	OB06178A	IC
IC304,713	OB06217A	μ PD4011BC
IC305	OB06124B	RC4560D
IC701	OB06253A	RC4558D
IC702	OB06265A	IC A.B.L.E. CPU
IC703	OB06261A	μ PD5101LC
IC704,705	OB06260A	μ PD4508BC
IC711	OB06214A	μ PD4516BC
IC712	OB06143A	μ PD4071BC
Q301,302	OB06100A	Transistor
701,702		μ PD4001BC
703,704		2SC945 (A)
705		
Q303	OB06013A	Transistor
Q304	OB06070A (OB06299A)	2SA733 2SC1636 (2SC2878)
D701-716	OB06181A	Silicon Diode
718-730		1SS53 (29 pcs.)
L301	OB03919B	Inductor
VR301,304	OB07329A	Semi-fixed Volume 2K
701,702		
VR302,303	OB07270A	Semi-fixed Volume 20K
R301,302	OB09305A	Metal Film Resistor 100K SN14K2E F
303,304		
305		
R306	OB09472A	Metal Film Resistor 220K SN14K2E F
R307	OB09461A	Metal Film Resistor 90.9K SN14K2E F
R308	OB09455A	Metal Film Resistor 59K SN14K2E F
R309,310	OB05508A	Carbon Resistor 56K ERD-25T J
736,737		
738,739		
R311	OB09469A	Metal Film Resistor 178K SN14K2E F
R312	OB09458A	Metal Film Resistor 73.2K SN14K2E F
R313	OB09452A	Metal Film Resistor 49.9K SN14K2E F
R314	OB09534A	Metal Film Resistor 12.7K SN14K2E F
R315	OB09460A	Metal Film Resistor 88.7K SN14K2E F
R316,318	OB09462A	Metal Film Resistor 95.3K SN14K2E F
319		
R317	OB09762A	Metal Film Resistor 2.8K SN14K2E F
R320	OB01857A	Carbon Resistor 1K ERD-25T J
R321,711	OB01888A	Carbon Resistor 10K ERD-25T J
748,749		
750,751		
R322,328	OB09447A	Metal Film Resistor 34.8K SN14K2E F
R323,329	OB09768A	Metal Film Resistor 3.92K SN14K2E F
R324	OB09434A	Metal Film Resistor 11.5K SN14K2E F
R325	OB09437A	Metal Film Resistor 15.8K SN14K2E F
R326,332	OB09203A	Metal Film Resistor 10K SN14K2E F
336		
R327	OB05641A	Carbon Resistor 47K ERD-25T J
R330	OB09417A	Metal Film Resistor 1.05K SN14K2E F
R331	OB09426A	Metal Film Resistor 5.36K SN14K2E F
R333,337	OB05615A	Carbon Resistor 22K ERD-25T J
789,790		
791,792		
797,798		
799,800		

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
R334,712	OB09356A	Metal Film Resistor 4.7K SN14K2E F	C704	OB09290A	Ceramic Capacitor 0.01 μ 50V Z
R335	OB09505A	Metal Film Resistor 1.1K SN14K2E F	C710	OB05681A	Mylar Capacitor 0.01 μ 50V J
R338,717	OB01889A	Carbon Resistor 100K ERD-25T J	C711	OB09395A	Electrolytic Capacitor 0.68 μ 50V (LN)
718,719			C712	OB01405A	Electrolytic Capacitor 1 μ 50V
768,785			CN1,3	OBL8760A	10P-H Connector 100mm
786,787			CN2	OBL8761A	11P-H Connector 100mm
788,793			CN4	OBL8183A	5P-T Post
794,795			CN5	OBL8302A	7P-T Post B7P-SHF-1
796,802			CN6	OBL8334A	8P-T Post B8P-SHF-1
803,806			CN7	OBL8506A	13P-T Post
807			CN8	OBL8182A	6P-T Post
R701	OB09522A	Metal Film Resistor 9.53K SN14K2E F	CN9	OBL8615A	10P-T Post
R702	OB09439A	Metal Film Resistor 20K SN14K2E F	CN57	OBL8746A	6P-H Connector 930mm
R703	OB01679A	Carbon Resistor 100 ERD-25T J			
R704	OB09448A	Metal Film Resistor 40.2K SN14K2E F			
R705	OB09459A	Metal Film Resistor 80.6K SN14K2E F			
R706	OB09467A	Metal Film Resistor 162K SN14K2E F			
R707	OB08627A	Carbon Resistor 330K ERD-25T J			
R708	OB09335A	Carbon Resistor 680K ERD-25T J			
R709	OB05963A	Carbon Resistor 1.3M ERD-25T J			
R710	OB09380A	Carbon Resistor 1.5M ERD-25T J			
R713	OB09429A	Metal Film Resistor 7.32K SN14K2E F			
R714,715	OB09340A	Metal Film Resistor 15K SN14K2E F			
R716	OB09263A	Carbon Resistor 12K ERD-25T J			
R720,721	OB05776A	Carbon Resistor 1M ERD-25T J			
722					
R723,724	OB05621A	Carbon Resistor 120K ERD-25T J			
725,726					
727,728					
R729,801	OB05560A	Carbon Resistor 18K ERD-25T J			
R730-735	OB05675A	Carbon Resistor 3.9K ERD-25T J (30 pcs.)			
740-747					
752-767					
R769,770	OB01856A	Carbon Resistor 8.2K ERD-25T J			
771,772					
781,782					
783,784					
R773,774	OB01887A	Carbon Resistor 5.6K ERD-25T J			
775,776					
R777,778	OB05509A	Carbon Resistor 33K ERD-25T J			
779,780					
R804	OB01854A	Carbon Resistor 39K ERD-25T J			
R805	OB05622A	Carbon Resistor 2.2K ERD-25T J			
R808	OB05962A	Carbon Resistor 1.2M ERD-25T J			
R809	OB05671A	Carbon Resistor 2.2M ERD-25T J			
C301	OB09411A	PP Capacitor 3300P 100V G			
C302	OB09408A	PP Capacitor 1000P 50V G			
C303	OB05950A	PP Capacitor 0.015 μ 100V G			
C304	OB09409A	PP Capacitor 1800P 100V G			
C305,318	OB05653A	Mylar Capacitor 1500P 50V J			
320					
C306	OB09246A	Mica Capacitor 150P 50V J			
C307	OB05813A	Mylar Capacitor 0.056 μ 50V J			
C308,310	OB05557A	Mylar Capacitor 0.015 μ 50V J			
312,313					
316					
C309,311	OB05550A	Mylar Capacitor 1000P 50V J			
314,317					
C315	OB05652A	Mylar Capacitor 4700P 50V J			
C319	OB09275A	Mica Capacitor 200P 50V J			
C321	OB09361A	Tantalum Capacitor 0.22 μ 35V			
C701	OB01400A	Electrolytic Capacitor 100 μ 16V			
C702,703	OB01397A	Electrolytic Capacitor 1000 μ 16V			

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BAL4229A	CPU P.C.B. B Ass'y	R124,224	OB05579A	Carbon Resistor 22 ERD-25T J
	OB07881C	CPU P.C.B.	R125,225	OB05936A	Carbon Resistor 10 ERD-25T J
IC101,201 802	OB06261A	IC μ PD4508BC	R823,824	OB09305A	Metal Film Resistor 100K SN14K2E F
IC301	OB06216A	IC μ PC4556C	R825	OB09481A	Metal Film Resistor 536K SN14K2E F
IC801	OB06264A	IC TC4514BP	R826,853	OB05776A	Carbon Resistor 1M ERD-25T J
IC803,808	OB06178A	IC μ PD4011BC	880		
IC804	OB06143A	IC μ PD4001BC	835,836		
IC805	OB06124B	IC RC4558D	837,872		
IC806	OB06223A	IC μ PD4040BC	873,874		
IC807	OB06270A	IC μ PD4069C	875,876		
IC809	OB06219A	IC μ PD4081BC	877		
Q101,201 801-807	OB06100A	Transistor 2SC945 (A)	R829-833	OB01854A	Carbon Resistor 39K ERD-25T J (18 pcs.)
813-818			850		
830,831			857-868		
832			849,851	OB01889A	Carbon Resistor 100K ERD-25T J
852,855			852,855		
Q102,202 822	OB06179A	Transistor 2SC1959 (Y)	902		
Q103,203 819	OB06202A	Transistor 2SA562 (Y)	R854,870	OB01682A	Carbon Resistor 6.8K ERD-25T J
Q808-812 821	OB06013A	Transistor 2SA733 (6 pcs.)	871,886		
Q820	OB06069A	Transistor 2SB564	R882,885	OB01846A	Carbon Resistor 4.7K ERD-25T J
Q823	OB06066A	Transistor 2SD471	R883,887	OB01857A	Carbon Resistor 1K ERD-25T J
D801-815	OB06181A	Silicon Diode 1SS53	R884,888	OB01713A	Carbon Resistor 33 ERD-25T J
X801	OB08723A	Crystal 1.68MHz	R889	OB09536A	Fail Safe Type Resistor 18 RSF-1/2B J
L101,201	OB01434A	Peaking Coil 1.14mH	R890	OB09537A	Fail Safe Type Resistor 22 RSF-1/2B J
L102,202	OB06635A	Bias Coil	R895,896	OB01933A	Carbon Resistor 220 ERD-25T J
L103,203	OB00068A	Trap Coil 10.5mH	R897	OB01888A	Carbon Resistor 10K ERD-25T J
VR101,201	OB07256A	Semi-fixed Volume 10K	R898	OB05627A	Carbon Resistor 330K ERD-25T J
VR801	OB07330A	Semi-fixed Volume 500K	R899	OB09531A	Carbon Resistor 2M ERD-25T J
R101,102 201,202	OB05621A	Carbon Resistor 120K ERD-25T J	C101,201	OB09411A	PP Capacitor 3300P 100V G
801-822			C102,202	OB09410A	PP Capacitor 2200P 100V G
827			C103,203	OB09405A	PP Capacitor 0.022 μ 100V G
838-846			C104,204	OB09404A	PP Capacitor 1000P 100V J
848,869			C105,107	OB09322A	PP Capacitor 330P 100V J
891-894			C106,206	OB09246A	Mica Capacitor 150P 50V J
R103,203	OB09435A	Metal Film Resistor 12.1K SN14K2E F	C801,802	OB09222A	Electrolytic Capacitor 0.47 μ 50V (LN)
R104,204	OB09467A	Metal Film Resistor 162K SN14K2E F	804,805		
R105,205	OB09475A	Metal Film Resistor 316K SN14K2E F	806,807		
R106,206	OB09482A	Metal Film Resistor 649K SN14K2E F	C803	OB05681A	Mylar Capacitor 0.01 μ 50V J
R107,207	OB05962A	Carbon Resistor 1.2M ERD-25T J	C808	OB09163A	Electrolytic Capacitor 10 μ 16V (BP)
R108,208	OB09535A	Metal Film Resistor 9.76K SN14K2E F	C809	OB09407A	PP Capacitor 0.15 μ 100V J
R109,209	OB09439A	Metal Film Resistor 20K SN14K2E F	C810,811	OB01412A	Electrolytic Capacitor 10 μ 16V
R110,210	OB09448A	Metal Film Resistor 40.2K SN14K2E F	C812,813	OB01502A	Electrolytic Capacitor 330 μ 16V
R111,211	OB09459A	Metal Film Resistor 80.6K SN14K2E F	814,815		
R112,212	OB09429A	Metal Film Resistor 7.32K SN14K2E F	C816	OB01405A	Electrolytic Capacitor 1 μ 50V
R113,114 115,116	OB09263A	Carbon Resistor 12K ERD-25T J	C817	OB01780A	Mylar Capacitor 0.1 μ 50V J
119,213			CN1,3	OBLS8646A	10P-T Post
214,215			CN2	OBLS8655A	11P-T Post
216,219			CN15	OBLS8642A	6P-T Post
847,856			CN16	OBLS8643A	7P-T Post
R117,120 217,220	OB05615A	Carbon Resistor 22K ERD-25T J	CN17	OBLS8724A	5P-T Post
R118,218	OB01683A	Carbon Resistor 15K ERD-25T J	CN18	OBLS8656A	2P-T Post
R121,221	OB05629A	Carbon Resistor 2.7K ERD-25T J	CN19	OBLS8654A	4P-T Post
R122,222	OB05575A	Carbon Resistor 560 ERD-25T J	CN20	OBLS8645A	9P-T Post
R123,223	OB09425A	Metal Film Resistor 5.11K SN14K2E F	CN51	OBLS8757A	8P-H Connector 250mm
			CN52	OBLS8756A	4P-H Connector 180mm
			CN54	OBLS8758A	3P-H Connector 850mm

1.21. CPU P.C.B. B Ass'y

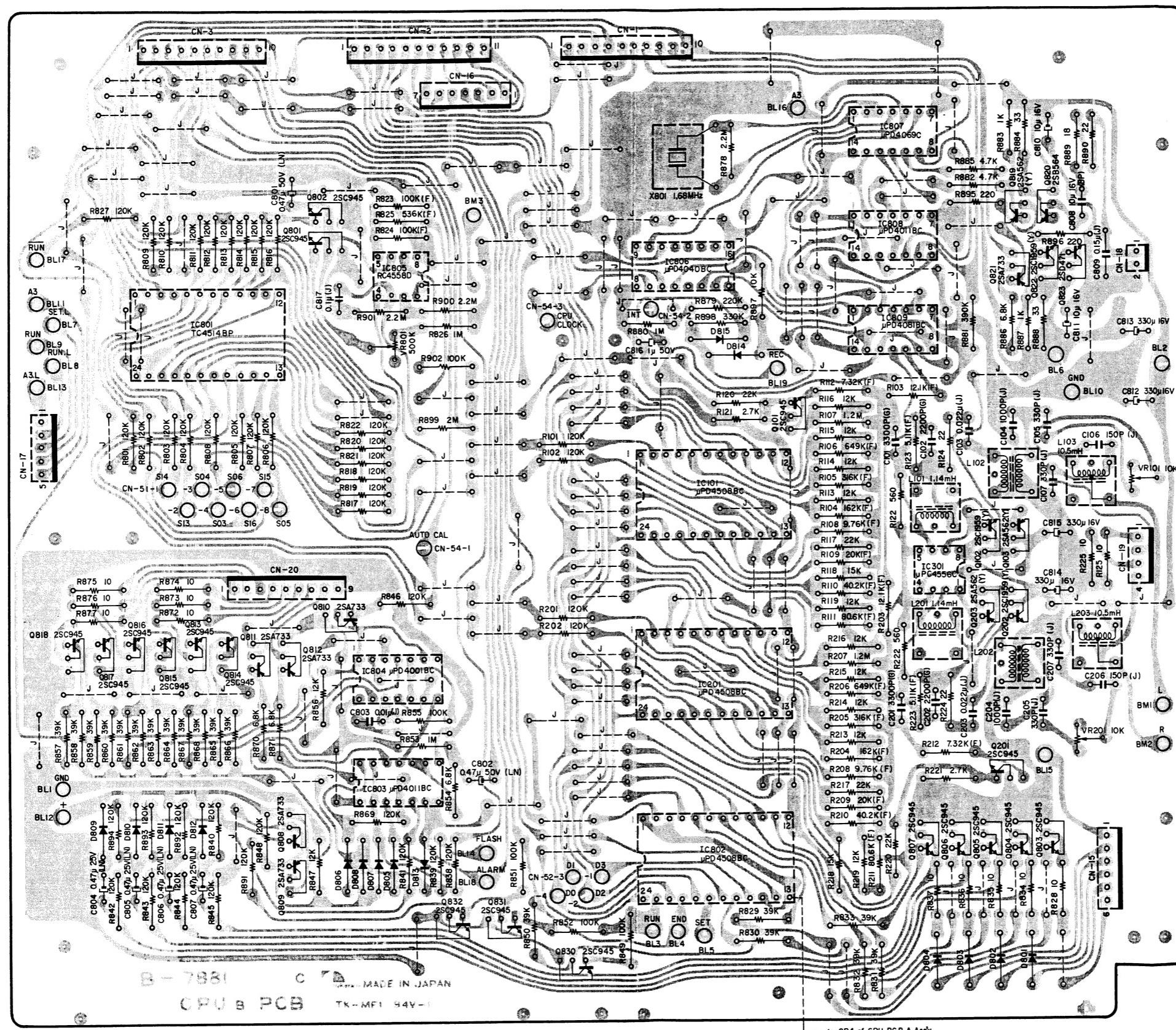


Fig. 1.2

Note: Diode is 1SS53 unless otherwise specified

1.22. RAMM P.C.B. Ass'y



Fig. 1.22

Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BAL4226A	RAMM P.C.B. Ass'y	R995	OB05626A	Carbon Resistor 150K ERD-25T J
	OB07894D	RAMM P.C.B.	R996	OB01681A	Carbon Resistor 3.3K ERD-25T J
IC901	OB06245A	IC RAMM CPU	C901,902	OB09187A	Electrolytic Capacitor 1μ 50V (BP)
IC902,903	OB06261A	IC	903		
IC904,905	OB06213A	IC	C904,905	OB01412A	Electrolytic Capacitor 10μ 16V
913			C906	OB01780A	Mylar Capacitor 0.1μ 50V J
IC906-910	OB06219A	IC	C907	OB09223A	Electrolytic Capacitor 1μ 50V (LN)
916,918		μPD4081BC (7 pcs.)	C908	OB09393A	Ceramic Capacitor 68P 50V K
IC911	OB06124B	IC	C909	OB09282A	Ceramic Capacitor 100P 50V K
IC912	OB06212A	IC	C910,911	OB09286A	Ceramic Capacitor 470P 50V K
IC914	OB06214A	IC	C912	OB09292A	Ceramic Capacitor 0.1μ 50V Z
IC915	OB06224A	IC	C913	OB09333A	Electrolytic Capacitor 4.7μ 25V (LN)
IC917	OB06270A	IC	CN24,58	OBLS8644A	8P-T Post
Q901-927	OB06100A	Transistor 2SC945 (A) (27 pcs.)	59		
D901-932	OB06181A	Silicon Diode 1SS53 (32 pcs.)	CN25,57	OBLS8642A	6P-T Post
L901	OB06636A	Inductor 1.05mH	CN26	OBLS8655A	11P-T Post
R901,902	OB09216A	Fail Safe Type Resistor 10 RFD-25S J (21 pcs.)	CN27	OBLS8724A	5P-T Post
904,905			CN28	OBLS8643A	7P-T Post
001-017			CN29,30	OBLS8732A	12P-S Connector F12P-SHVQ
R903	OB05675A	Carbon Resistor 3.9K ERD-25T J	CN41,56	OBLS8654A	4P-T Post
R906-908	OB05560A	Carbon Resistor 18K ERD-25T J (25 pcs.)	CN43	OBLS8236A	4P-T Post B4P-SHF-1
967-971			CN50	OBLS8183A	5P-T Post B5P-SHF-1
018-034			CN54	OBLS8653A	3P-T Post
R909,919	OB01888A	Carbon Resistor 10K ERD-25T J	CN55	OBLS8656A	2P-T Post
940,941			CN60,61	OBLS8334A	8P-T Post B8P-SHF-1
942,943					
973,977					
986,998					
R910,911	OB01683A	Carbon Resistor 15K ERD-25T J			
R912-917	OB01889A	Carbon Resistor 100K ERD-25T J (28 pcs.)			
920-925					
927,928					
930-933					
960,963					
979,980					
983,984					
988,990					
992,037					
R918,926	OB05776A	Carbon Resistor 1M ERD-25T J			
935,972					
981,982					
987,989					
991,993					
035,036					
R929,961	OB05615A	Carbon Resistor 22K ERD-25T J			
R934,962	OB05625A	Carbon Resistor 220K ERD-25T J			
R936,937	OB05622A	Carbon Resistor 2.2K ERD-25T J			
938,939					
997					
R944-955	OB01856A	Carbon Resistor 8.2K ERD-25T J (12 pcs.)			
R956,957	OB05508A	Carbon Resistor 56K ERD-25T J			
958					
R964	OB09392A	Carbon Resistor 200K ERD-25T J			
R965,966	OB05676A	Carbon Resistor 390K ERD-25T J			
R974	OB05641A	Carbon Resistor 47K ERD-25T J			
R975	OB05620A	Carbon Resistor 270K ERD-25T J			
R976,994	OB01857A	Carbon Resistor 1K ERD-25T J			
999					
R978	OB05627A	Carbon Resistor 330K ERD-25T J			
R985	OB05509A	Carbon Resistor 33K ERD-25T J			

1.23. Display P.C.B. Ass'y

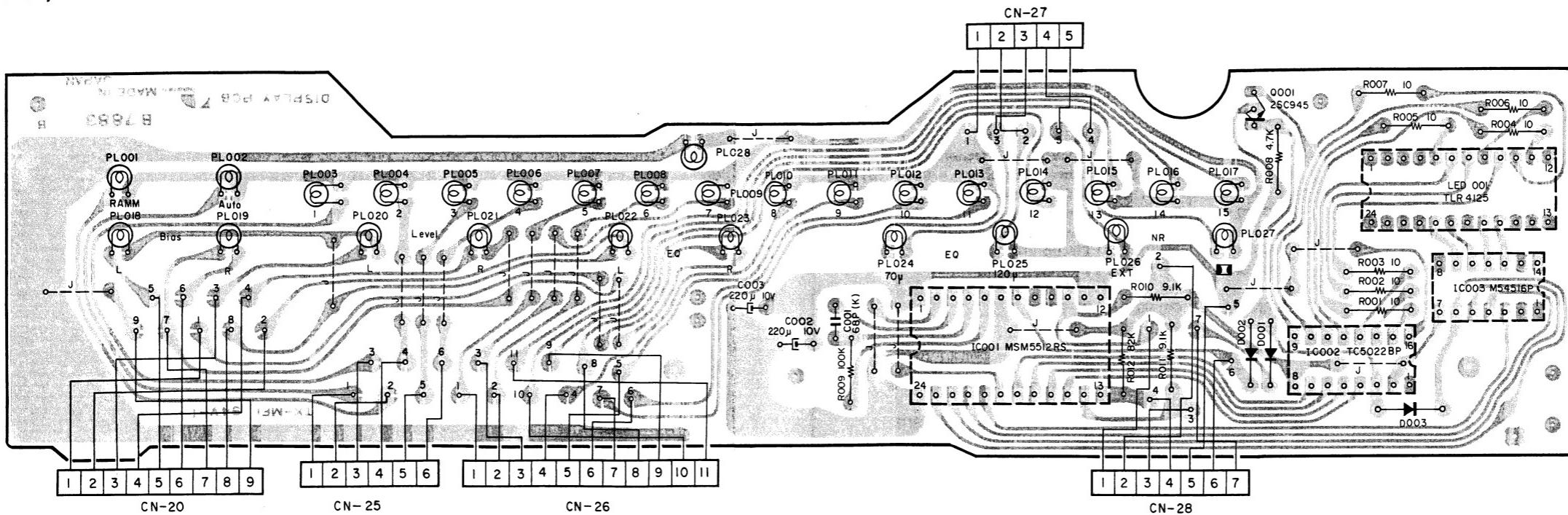


Fig. 1.23

Note: Diode is 1SS53 unless otherwise specified.

Schematic Ref. No.	Part No.	Description
	BAL4233A	Display P.C.B. Ass'y
IC001	OB07883B	Display P.C.B.
IC002	OB06259A	IC MSM5512RS
IC003	OB06211A	IC TC5022BP
Q001	OB06258A	IC M54516P
D001,002 003	OB06100A OB06181A	Transistor 2SC945 (A) Silicon Diode 1SS53
LED001	OB06266A	LED TLR4125
R001-007	OB05936A	Carbon Resistor 10 ERD-25T J (7 pcs.)
R008	OB01846A	Carbon Resistor 4.7K ERD-25T J
R009	OB01889A	Carbon Resistor 100K ERD-25T J
R010,011	OB05694A	Carbon Resistor 9.1K ERD-25T J
R012	OB05668A	Carbon Resistor 82K ERD-25T J
C001	OB09393A	Ceramic Capacitor 68P 50V K
C002,003	OB05899A	Electrolytic Capacitor 22μ 10V
PL001-027	OB08721A	Lamp 12V 30mA (27 pcs.)
PL028	OB08822A	Lamp 14V 60mA
CN20	0BL8741A	9P-H Connector 550mm
CN25	0BL8740A	6P-H Connector 340mm
CN26	0BL8742A	11P-H Connector 360mm
CN27	0BL8738C	5P-H Connector 390mm
CN28	0BL8739A OB08772A	7P-H Connector 420mm (1 pce.)

2. MECHANISM ASS'Y AND PARTS LIST

2.1. Synthesis

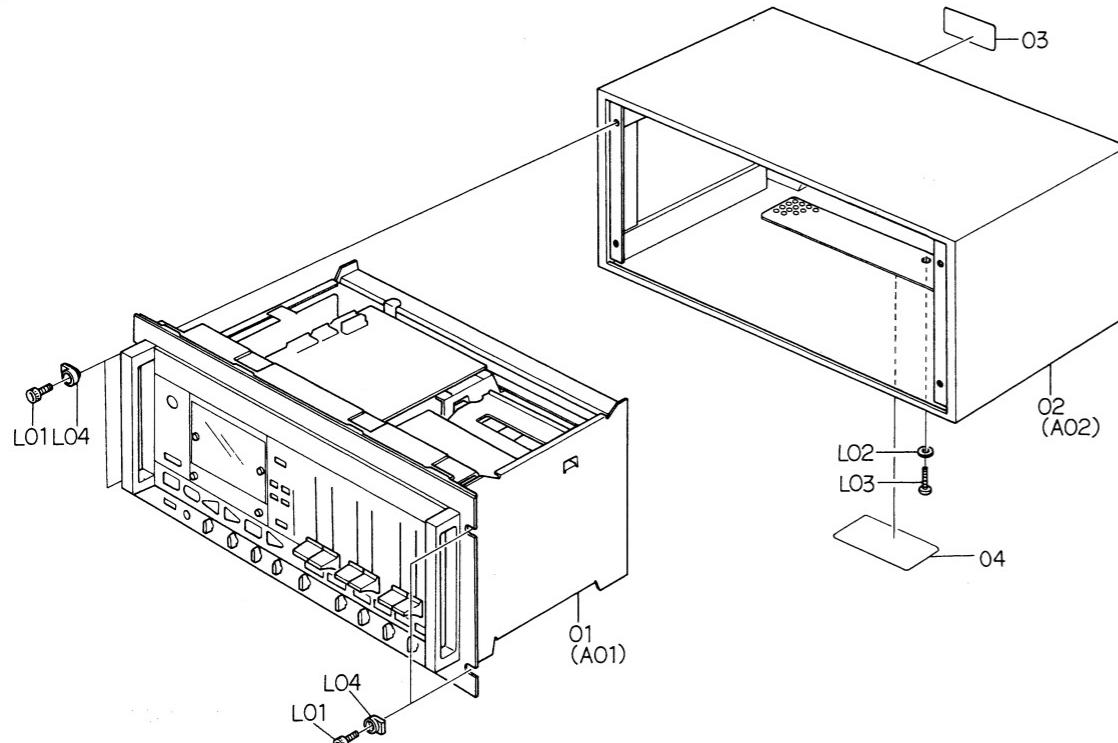


Fig. 2.1

2.2. Synthesis Mechanism Ass'y (A01)

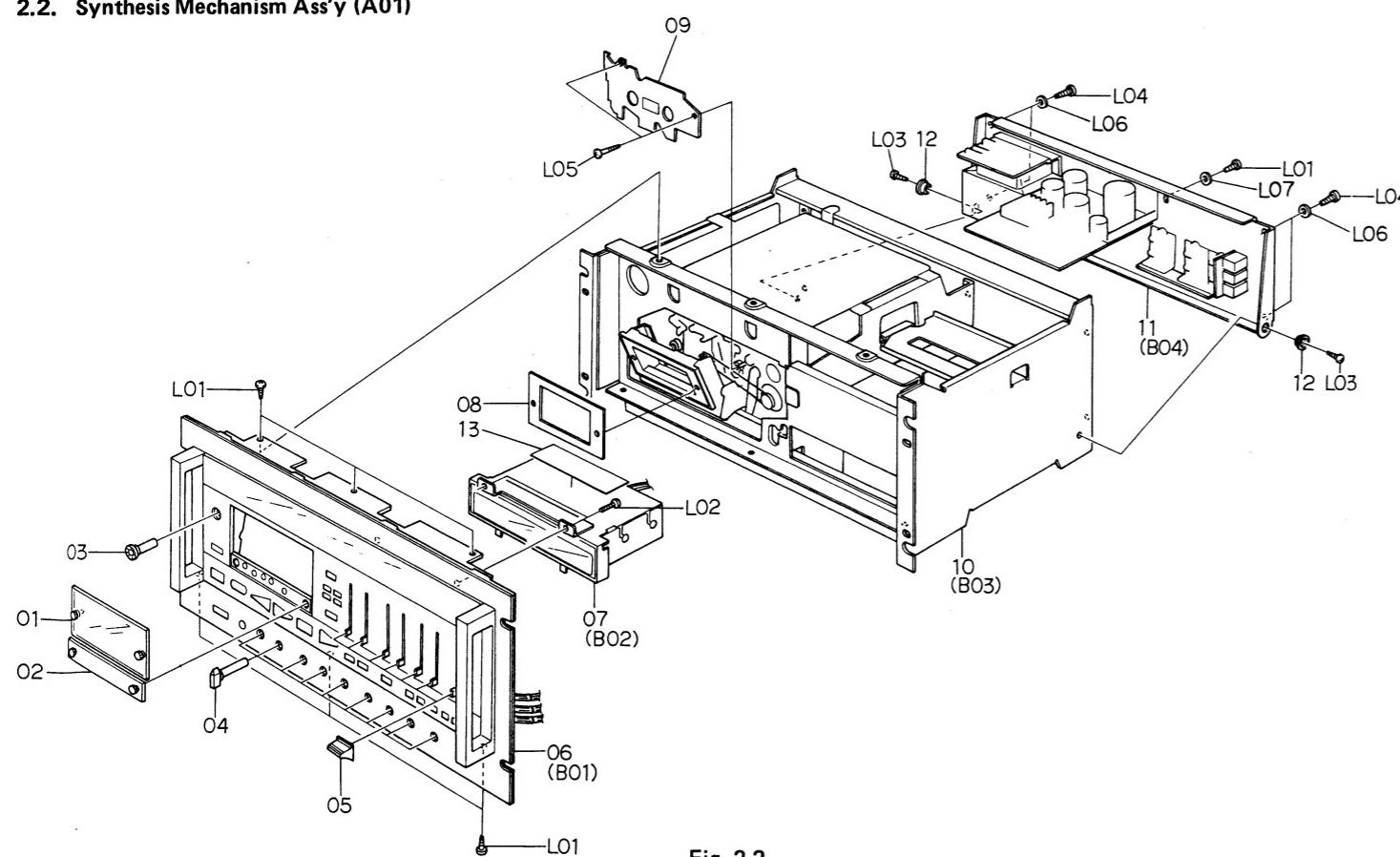


Fig. 2.2

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
01	HAL4008A	Synthesis	1	A01	HAL4008A	Synthesis Mechanism Ass'y (U.S.A. & Canada)	1
	HAL4025A	Synthesis Mechanism Ass'y (Japan)	1		HAL4025A	Synthesis Mechanism Ass'y (Japan)	1
	HAL4026A	Synthesis Mechanism Ass'y (Others)	1		HAL4026A	Synthesis Mechanism Ass'y (Others)	1
	HAL4027A	Synthesis Mechanism Ass'y (220V Class 2)	1		HAL4027A	Synthesis Mechanism Ass'y (220V Class 2)	1
	HAL4028A	Synthesis Mechanism Ass'y (UK)	1		HAL4028A	Synthesis Mechanism Ass'y (UK)	1
	HAL4029A	Synthesis Mechanism Ass'y (Australia)	1		HAL4029A	Synthesis Mechanism Ass'y (Australia)	1
02	HA04272A	Cabinet Ass'y	1	01	HAL4001A	Cassette Case Cover Ass'y	1
03	OM03458A	PASS Label	1	02	HA04279A	Owner's Name Plate Ass'y	1
04	OM04101A	Caution Label	1	03	OHL3846A	Pitch Control Knob	1
L01	OH04026A	Screw M5x10 Socket Head	4	04	OHL3860A	Function Switch Knob	9
L02	OE00930A	Washer 5mm (Black Chromate)	1	05	OHL3844A	Slide Volume Knob	3
L03	OE00963A	Screw M4x20 Philips Binding Head (Bronze)	1	06	HAL4009A	Front Panel Ass'y	1
L04	OH04063A	Set Washer	4	07	HAL4011A	FL Indicator Ass'y	1
				08	OHL3838A	Cassette Case Plate	1
				09	CA08259A	Cover Plate Ass'y	1
				10	HAL4012A	Synthesis Mechanism Sub Ass'y (U.S.A. & Canada)	1
					HAL4030A	Synthesis Mechanism Sub Ass'y (Japan)	1
					HAL4031A	Synthesis Mechanism Sub Ass'y (220V Class 2, UK, Australia & Others)	1
11	HA04274A	Rear Panel Ass'y (U.S.A. & Canada)	1				
	HA04273A	Rear Panel Ass'y (Japan)	1				
	HA04275A	Rear Panel Ass'y (Others)	1				
	HA04276A	Rear Panel Ass'y (220V Class 2)	1				
	HA04277A	Rear Panel Ass'y (UK)	1				
	HA04278A	Rear Panel Ass'y (Australia)	1				
12	OJ04154A	Rear Panel Collar	2				
13	OM04310A	Check Seal	1				
—	OB08515A	Insu-Lock	5				
L01	OE00860A	BT Screw M3x6 Philips Binding Head (Black Chromate)	9				
L02	OE00588A	Screw M3x8 Philips Pan Head (Bronze)	2				
L03	OE00857A	BT Screw M3x6 Philips Binding Head	2				
L04	OE00858A	BT Screw M4x6 Philips Binding Head (Bronze)	4				
L05	OE00832A	BT Screw M3x14 Philips Pan Head	2				
L06	OE00736A	Washer 4mm Steel (Black Chromate)	4				
L07	OE00597A	Washer 3mm Steel (Black Chromate)	1				

2.3. Cabinet Ass'y (A02)

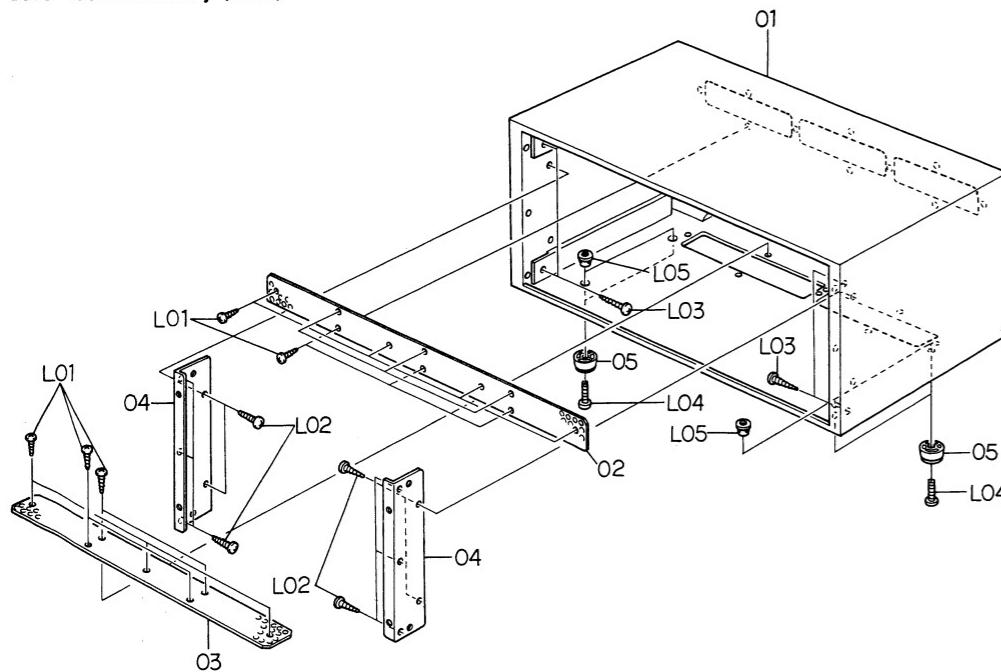


Fig. 2.3

2.4. Front Panel Ass'y (B01)

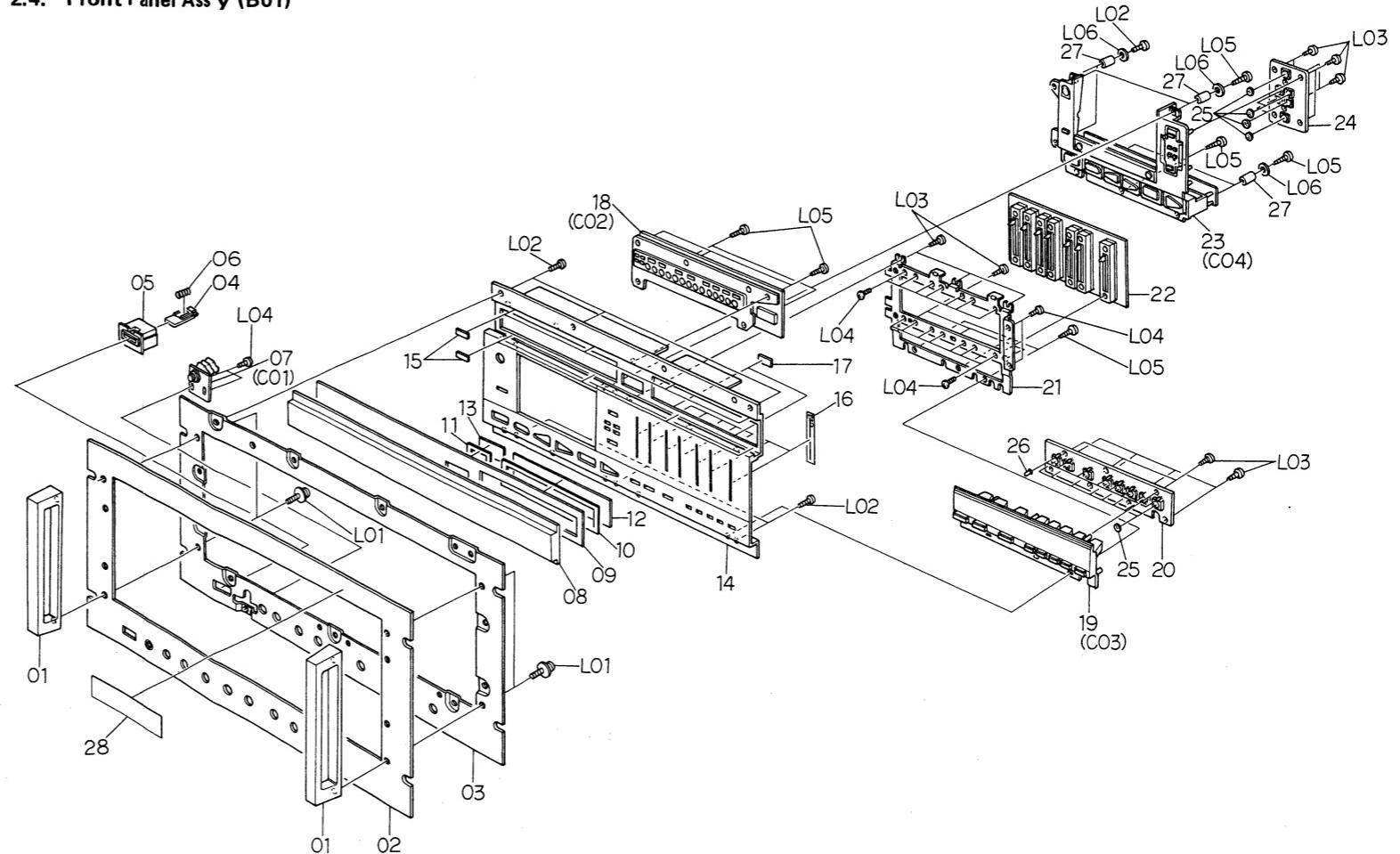


Fig. 2.4

Schematic Ref. No.	Part No.	Description	Q'ty
A02	HA04272A	Cabinet Ass'y	1
01	0A03287A	Cabinet	1
02	OHL3878A	Punching Plate A	1
03	OHL3879A	Punching Plate B	1
04	OHL3880A	Cabinet Side Plate	2
05	OHL3825A	Leg S	4
L01	OE01022A	Wood Screw 2.7x8 Philips Record Head	17
L02	OE01023A	Wood Screw 3.1x13 Philips Round Head	10
L03	OE01024A	Wood Screw 3.1x25 Philips Round Head	4
L04	OE00937A	Screw M4x16 Philips Pan Head (Black Chromate)	4
L05	OE01025A	Nut 4mm (Self Tightened)	4

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B01	HAL4009A	Front Panel Ass'y	1	20	BAL4240A	Function Switch P.C.B. Ass'y	1
01	OHL3867A	Handle	2	21	OJ04118A	Volume Holder	1
02	OHL3871A	Front Panel B	1	22	BAL4232A	MIC Amp. & Volume P.C.B. Ass'y	1
03	OJ04121A	Panel Chassis	1	23	HAL4015A	Front Escutcheon A Ass'y	1
04	OHL3863A	Power Switch Button	1	24	BAL4241A	RAMM Control Switch P.C.B. Ass'y	1
05	OH03864A	Power Switch Escutcheon	1	25	OJ04290B	Switch Cushion	14
06	OJ04114A	Power Switch Spring	1	26	OB08847A	Filter Cap G-50	8
07	JAL3737A	Headphone Jack Ass'y	1	27	OJ04329A	Front Escutcheon Collar	6
08	OH03870A	Indicator Cover	1	28	OM04307A	Model Name Plate	1
09	OHL3869B	Indicator Plate	1	—	OJ04261A	Black Tape	2
10	OJ04288A	Adhesive Tape A	1	L01	OE00933A	Screw M4x12 Philips Pan Head (3A)	4
11	OJ04289B	Adhesive Tape B	1	L02	OE00589A	Screw M3x6 Philips Pan Head	18
12	OH03842A	FL Indicator Filter	1	L03	OE00857A	BT Screw M3x6 Philips Binding Head	19
13	OH03856B	Counter Filter	1	L04	OE00502A	Screw M3x5 Philips Pan Head	18
14	OHL3875B	Front Panel	1	L05	OE00868A	BT Screw M3x8 Philips Binding Head	13
15	OJ04112B	Indicator Cushion	8	L06	OE00178A	Washer 3mm	6
16	OJL4128A	Volume Cover	7				
17	OJ04129A	FL Indicator Cushion	2				
18	HAL4018A	Display House Ass'y	1				
19	HAL4016A	Front Escutcheon B Ass'y	1				

2.5. FL Indicator Ass'y (B02)

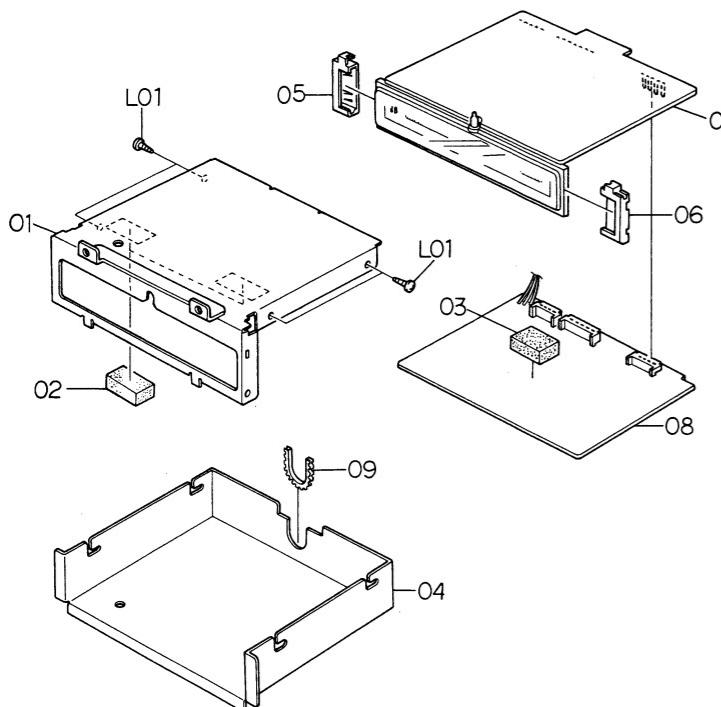


Fig. 2.5

2.6. Synthesis Mechanism Sub Ass'y (B03)

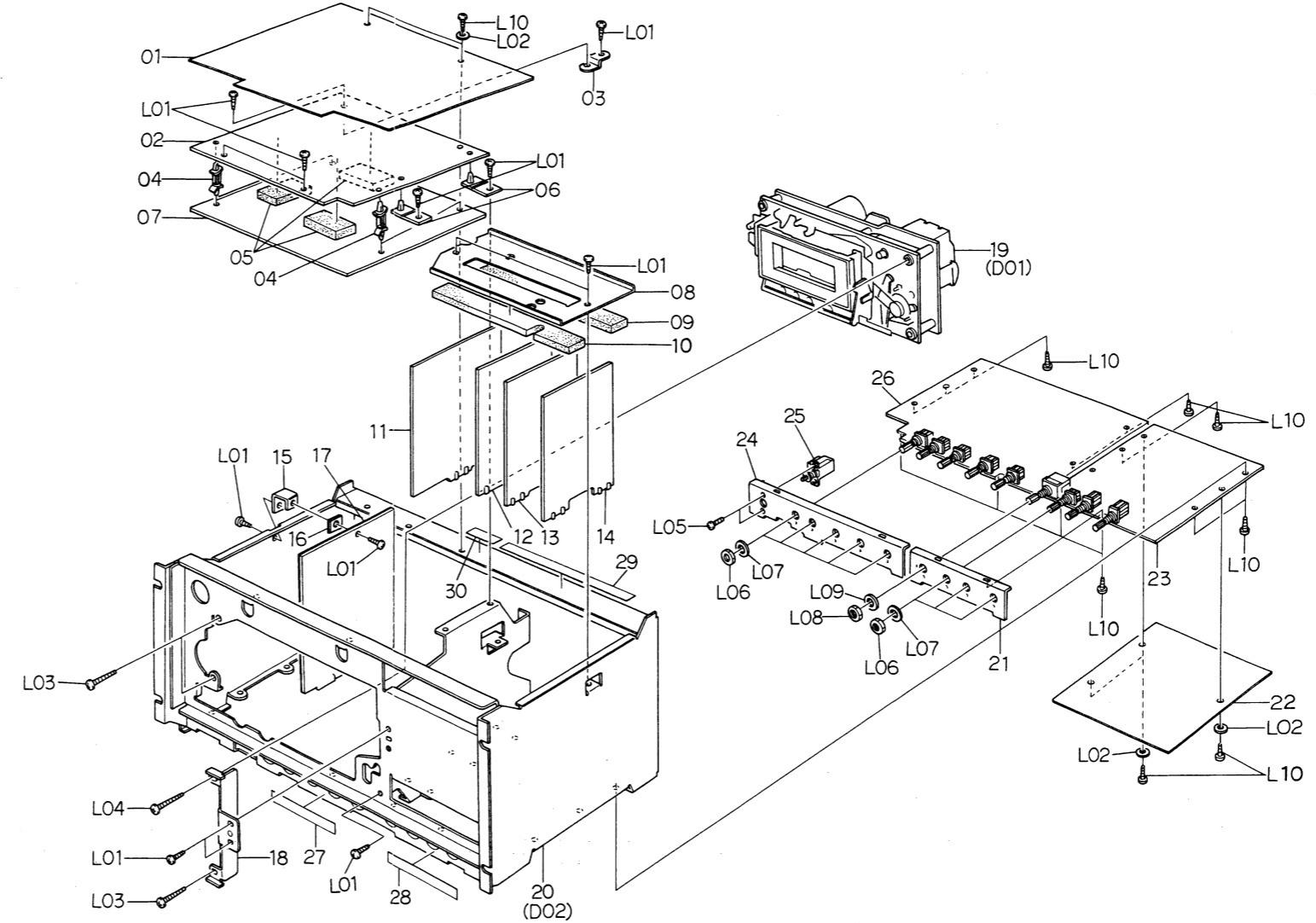


Fig. 2.6

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B02	HAL4011A	FL Indicator Ass'y	1	B03	HAL4012A	Synthesis Mechanism Sub Ass'y (U.S.A. & Canada)	1	12	BAL4230A	Detector P.C.B. Ass'y	1	28	OM04177A	Function Switch Seal R	1
01	JAL3683A	FL Indicator Case Ass'y	1		HAL4030A	Synthesis Mechanism Sub Ass'y (Japan)	1	13	BAL4236A	Record Dolby NR P.C.B. Ass'y	1	29	OM04179A	Module P.C.B. Indicator Label	1
02	OJ04263B	Cushion B	2		HAL4031A	Synthesis Mechanism Sub Ass'y (220V Class 2, UK, Australia & Others)	1	14	BAL4235A	Playback Amp. & Dolby NR P.C.B. Ass'y	1	30	OM04311A	Check Seal	1
03	OJ04262B	Cushion A	1				1	15	OJL4151B	P.C.B. Holder A	1	—	OM04170A	Amplifier Serial No. Seal	1
04	OJL4127A	FL Indicator Case Cover	1				1	16	OJ04264A	Insulator	1	—	OB08515A	Insu-Lock	30
05	OJ04119A	FL Indicator Holder L	1				1	17	BAL4226A	RAMM P.C.B. Ass'y	1	L01	OE00860A	BT Screw M3x6 Philips Binding Head (Black Chromate)	13
06	OJ04120A	FL Indicator Holder R	1				1	18	OJL4135C	Mechanism Bracket	1	L02	OE00178A	Washer 3mm	5
07	BAL4246A	FL Indicator P.C.B. B Ass'y	1	01	OB08824B	CPU P.C.B. Shield Plate	1	19	CA08368A	Mechanism Ass'y 1000ZXL LTD	1	L03	OE00944A	BT Screw M4x15 Philips Binding Head (Black Chromate)	3
08	BAL4245A	FL Indicator P.C.B. A Ass'y	1	02	BAL4229A	CPU P.C.B. B Ass'y	1	20	JAL3734A	Chassis Sub Ass'y	1	L04	OE00924A	BT Screw M4x16 Philips Binding Head	1
09	OB08776A	Free Bushing 36mm	1	03	OJL4153A	P.C.B. Holder C	1	21	OJL4146A	Switch Plate MB	1	L05	OE00502A	Screw M3x5 Philips Pan Head	2
L01	OE00860A	BT Screw M3x6 Philips Binding Head (Black Chromate)	4	04	OJ04255A	P.C.B. Supporter	4	22	OB08825A	Main P.C.B. Insulator	1	L06	—	Switch Nut A	(8)
				05	OJ04262A	Cushion A	3	23	BAL4227A	Main P.C.B. Ass'y	1	L07	—	Switch Washer A	(8)
				06	OB08771A	Hinge	2	24	OJL4145A	Switch Plate LB	1	L08	—	Switch Nut B	(1)
				07	BAL4228A	CPU P.C.B. A Ass'y	1	25	OB07253A	Power Switch	1	L09	—	Switch Washer B	(1)
				08	OJL4365A	P.C.B. Holder B	1	26	OB07252A	Power Switch	1	L10	OE00857A	BT Screw M3x6 Philips Binding Head	16
				09	OJ04155B	P.C.B. Cushion	1	27	BAL4244B	Logic P.C.B. Ass'y	1				
				10	OJ04367A	P.C.B. Cushion B	1		OM04178A	Function Switch Seal L	1				
				11	BAL4231A	Record Eq. Amp. P.C.B. Ass'y	1								

2.7. Rear Panel Ass'y (B04)

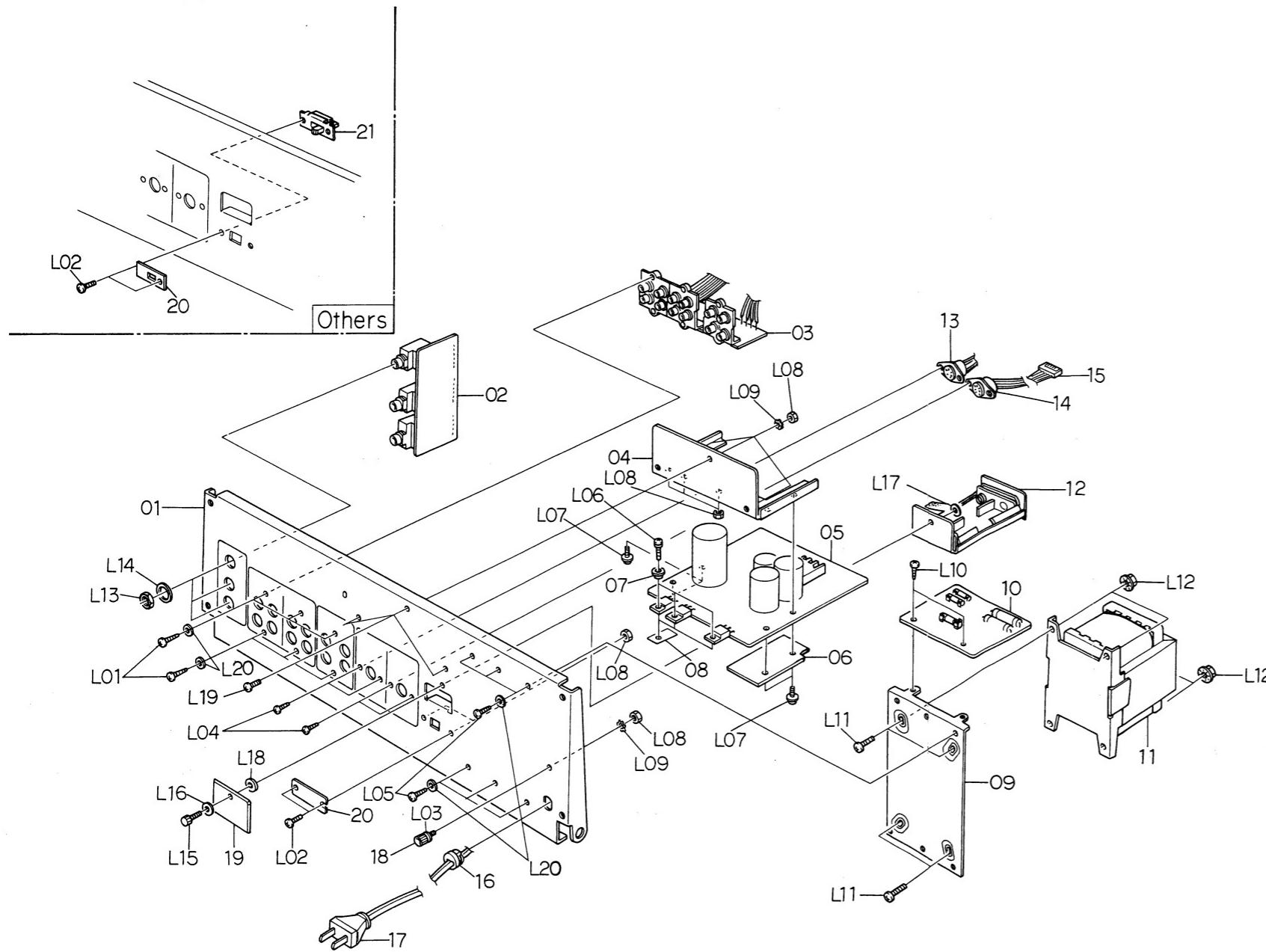


Fig. 2.7

2.8. Headphone Jack Ass'y (C01)

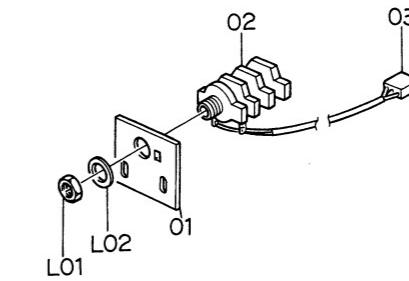


Fig. 2.8

2.9. Display House Ass'y (C02)

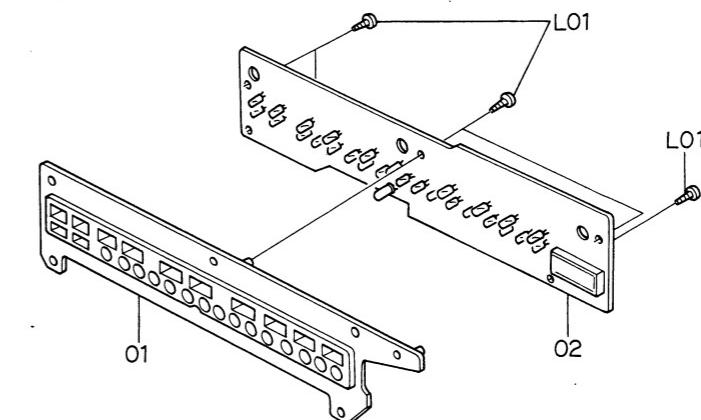


Fig. 2.9

2.10. Front Escutcheon B Ass'y (C03)

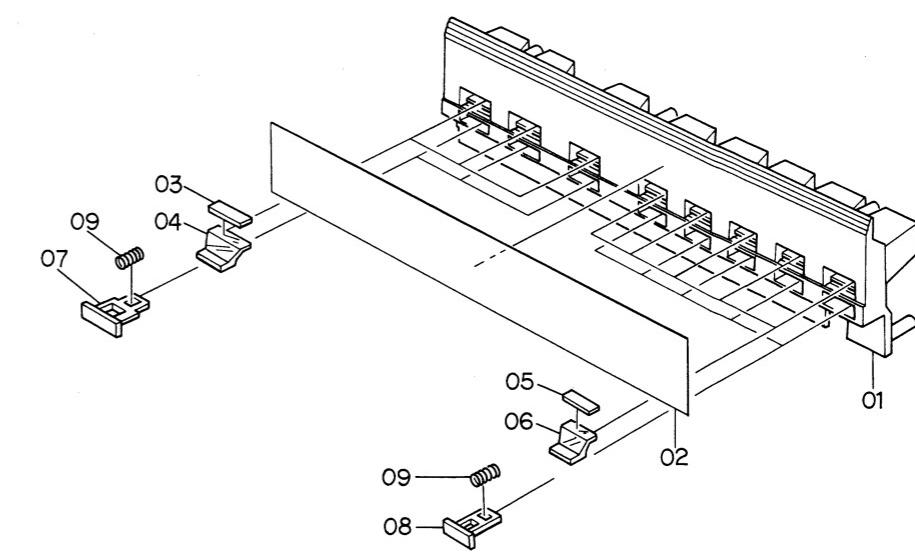


Fig. 2.10

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B04	HA04274A	Rear Panel Ass'y (U.S.A. & Canada)	1	L02	0E00593A	Screw M3x6 Philips Binding Head	2
	HA04273A	Rear Panel Ass'y (Japan)	1	L03	0E00732A	Washer 3mm	1
	HA04275A	Rear Panel Ass'y (Others)	1	L04	0E00714A	Screw M2.6x6 Philips Binding Head (Bronze)	4
	HA04276A	Rear Panel Ass'y (220V Class 2)	1	L05	0E00860A	BT Screw M3x6 Philips Binding Head (Bronze)	6
	HA04277A	Rear Panel Ass'y (UK)	1	L06	0E00510A	Screw M3x8 Philips Pan Head	3
	HA04278A	Rear Panel Ass'y (Australia)	1	L07	0E00606A	Screw M3x6 Philips Pan Head	4
01	OHL3881D	Rear Panel	1	L08	0E00507A	Nut Hex. M3	9
02	BAL4243A	MIC Jack P.C.B. Ass'y	1	L09	0E00172A	Washer 3mm Toothed Lock	4
03	BA04242A	Pin Jack P.C.B. Ass'y	1	L10	0E00857A	BT Screw M3x6 Philips Binding Head	2
04	OBL8759D	Heat Sink	1	L11	0E00929A	Screw M4x8 Philips Binding Head	4
05	BAL4234A	Power Supply P.C.B. Ass'y	1	L12	0E00928A	Nut Hex. M4 Flange	4
06	OB08826B	Insulator	1	L13	-	MIC Jack Nut (3)	(3)
07	OB08602A	Transistor Bushing TO220	3	L14	-	MIC Jack Washer (3)	(3)
08	OB08601A	Insulator Mica TO220	3	L15	OHL3825B	Screw M3x5 Cylinder Head	1
09	OJ04147B	Transformer Holder	1	L16	OHL3760B	Washer A	1
10	BA04256A	Fuse P.C.B. Ass'y (U.S.A. & Canada)	1	L17	OJ04067A	Washer FT40	1
	BA04257A	Fuse P.C.B. Ass'y (Japan)	1	L18	0E00157A	Washer 3mm (Black Plastics)	1
	BA04371A	Fuse P.C.B. Ass'y (Others)	1	L19	0E00594A	Screw M3x8 Philips Binding Head (Bronze)	3
	BA04259A	Fuse P.C.B. Ass'y (220V Class 2)	1	L20	0E00597A	Washer 3mm Steel (Black Chromate)	12
11	OB06630A	Power Transformer (U.S.A. & Canada)	1	C01	JAL3737A	Headphone Jack Ass'y	1
	OB06631A	Power Transformer (Japan)	1	01	OJ04110A	Headphone Jack Holder	1
	OB06633A	Power Transformer (Others)	1	02	OB08511A	Headphone Jack	1
	OB06632A	Power Transformer (220V Class 2, UK & Australia)	1	03	OBT8765A	3P-H Connector	1
12	JAL3733A	Battery Box Ass'y	1	L01	-	Headphone Jack Nut (1)	(1)
13	OB08584A	8P DIN Socket	1	L02	-	Headphone Jack Washer (1)	(1)
14	OB08495A	8P DIN Socket	1	C02	HAL4018A	Display House Ass'y	1
15	OBL8770A	8P-H Connector	1	01	OHO3866B	Display House	1
16	OB08037U	Cord Bushing (U.S.A., Canada, 220V Class 2, Others, Australia & Japan)	1	02	BAL4233A	Display P.C.B. Ass'y	1
	OB08351A	Cord Bushing (UK)	1	L01	0E00857A	BT Screw M3x6 Philips Binding Head	5
17	OB08533A	Power Cord (U.S.A., Canada & Others)	1	C03	HAL4016A	Front Escutcheon B Ass'y	1
	OB08219B	Power Cord (Japan)	1	01	OHO3872B	Front Escutcheon B	1
	OB08093U	Power Cord (220V Class 2)	1	02	OJ04117A	Light Intercepting Reflector	1
	OB08348A	Power Cord (UK)	1	03	OHO3840A	Filter Blue A	3
	OB05241A	Power Cord (Australia)	1	04	OHO3849B	Indicator B	3
18	OBL3920B	Ground Terminal	1	05	OHO3841A	Filter Blue B	5
19	OHL3882A	Battery Cover	1	06	OHO3848B	Indicator A	5
20	OJL3663C	Switch Cover C (U.S.A., Canada, 220V Class 2, Australia & Japan)	1	07	OHL3862A	Function Button B	3
	OM03946A	Voltage Lock Plate (Others)	1	08	OHL3861A	Function Button A	5
	OB07092U	Voltage Selector	1	09	OJ04115B	Function Switch Spring	8
-	OM03955A	Voltage Label B (Others)	1				
-	OM03794A	Voltage Label 100V (Japan)	1				
-	OM03796A	Voltage Label 220V (220V Class 2)	1				
-	OM03797A	Voltage Label 240V (UK & Australia)	1				
-	OM03798A	Nakamichi Label (Japan)	1				
-	OM03844B	Power Cord Label (UK)	1				
-	OF01071A	Free-up Belt	1				
-	OM04203A	ABLE Label (U.S.A.)	1				
L01	OE00921A	BT Screw M3x8 Philips Binding Head (Black Chromate)	6				

2.11. Front Escutcheon A Ass'y (C04)

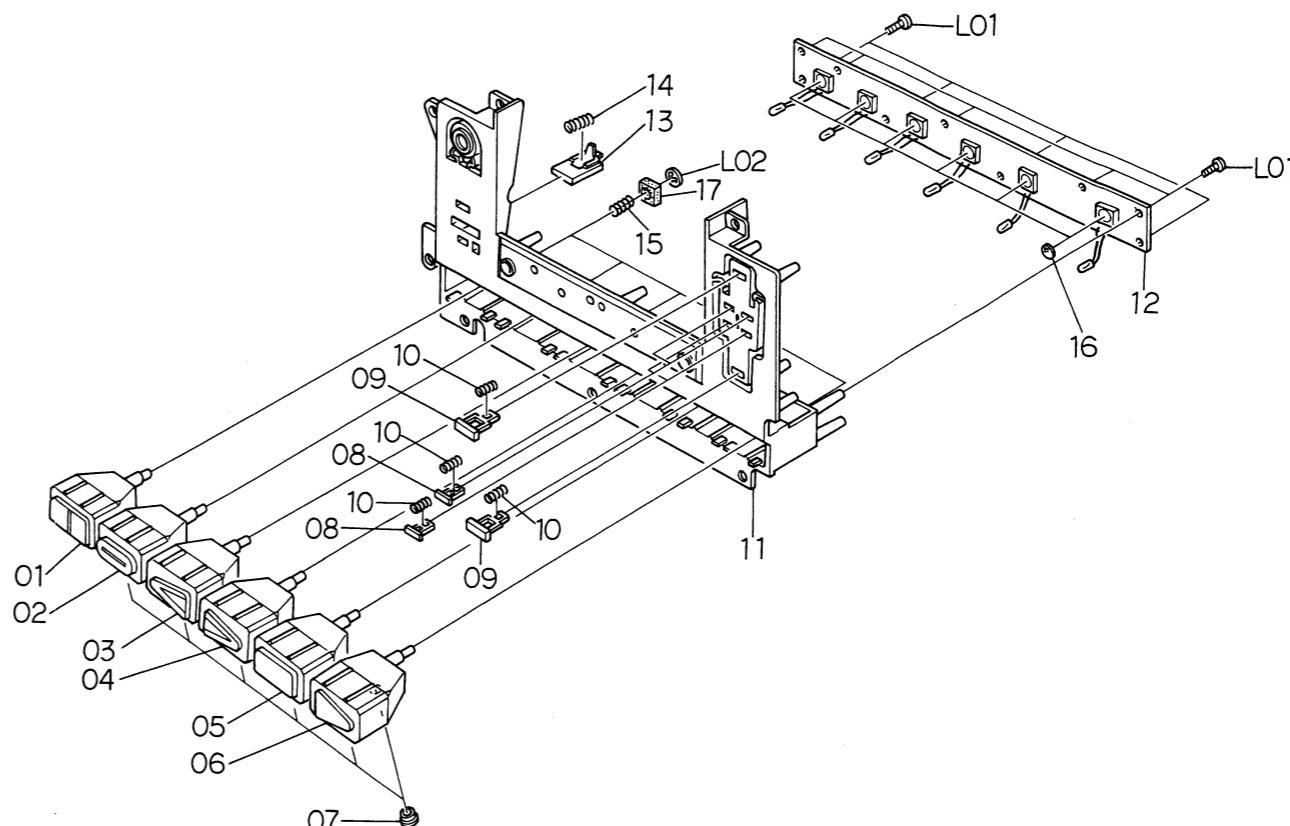


Fig. 2.11

Schematic Ref. No.	Part No.	Description	Q'ty
C04	HAL4015A	Front Escutcheon A Ass'y	1
01	HAL4002A	Pause Button Ass'y	1
02	HAL4003A	Record Button Ass'y	1
03	HAL4004A	Rewind Button Ass'y	1
04	HAL4005A	F.F. Button Ass'y	1
05	HAL4006A	Stop Button Ass'y	1
06	HAL4007A	Play Button Ass'y	1
07	OJ04109A	Lamp Holder	6
08	OHL3861A	Function Button A	4
09	OHL3862A	Function Button B	2
10	OJ04115B	Function Switch Spring	6
11	HA03998B	Front Escutcheon A Sub Ass'y	1
12	BAL4239A	Mechanism Control Switch P.C.B. Ass'y	1
13	OHL3865A	Eject Button	1
14	OJ04114A	Power Switch Spring	1
15	OJ04113B	Control Switch Spring	6
16	OJ04290B	Switch Cushion	6
17	OJ04296A	Button Cushion	6
L01	0E00857A	Screw M3x6 Philips Binding Head	9
L02	0E00926A	Stopper Ring CS 4mm	6

2.12. Mechanism Ass'y 1000ZXL LTD (D01)

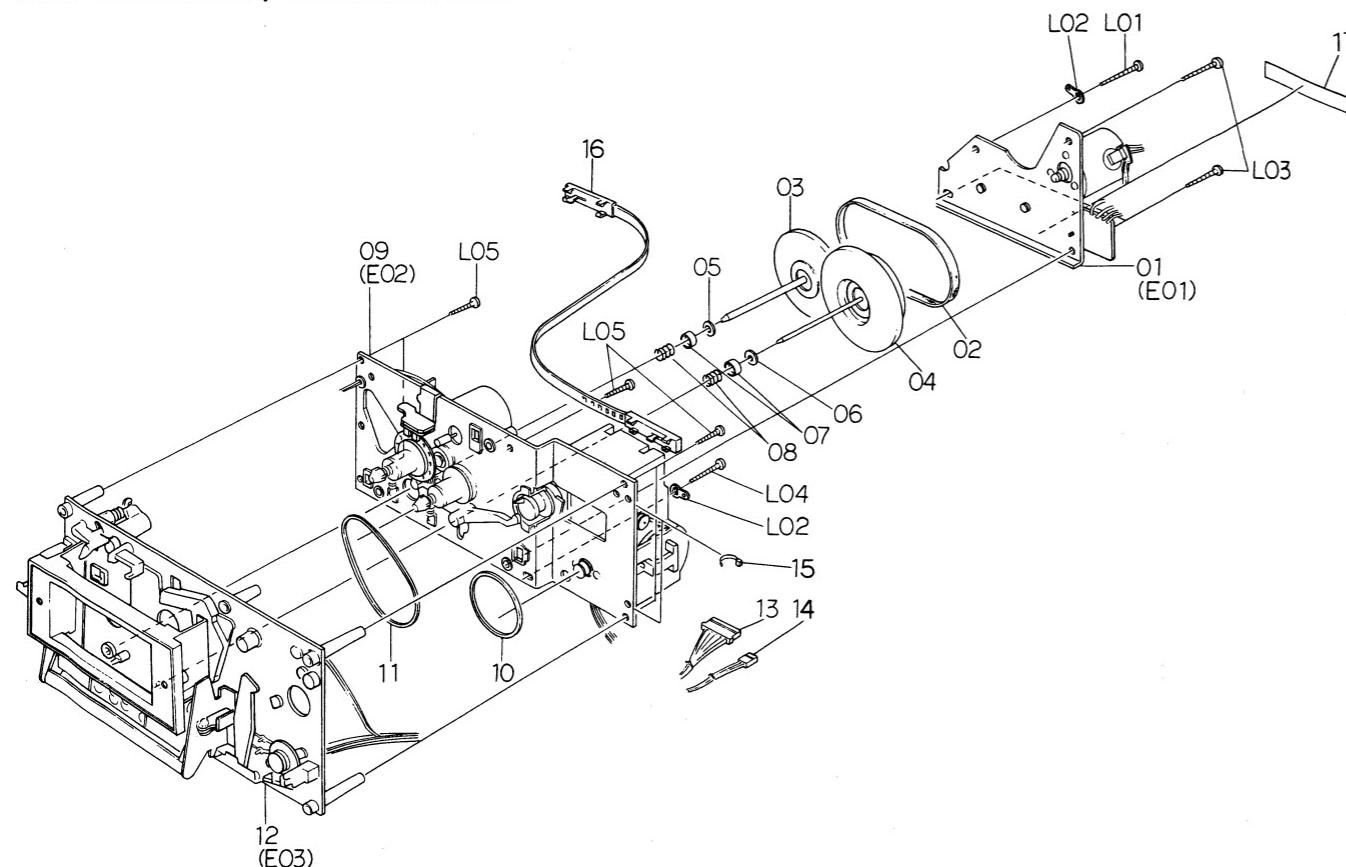


Fig. 2.12

2.13. Chassis Sub Ass'y (D02)

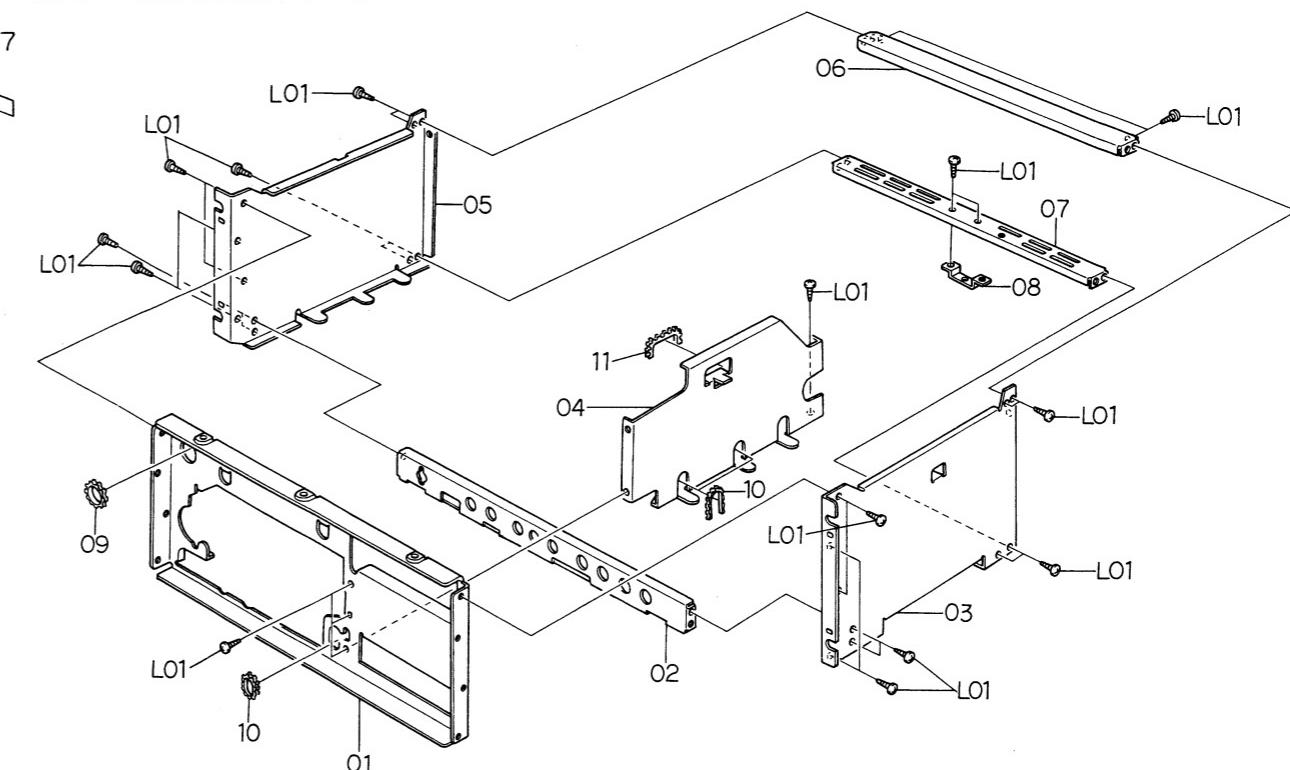


Fig. 2.13

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
D01	CA08368A	Mechanism Ass'y 1000ZXL LTD	1	L04	OE00835A	BT Screw M3x25 Philips Pan Head (Chromate)	1	E01	CAL8247A	Flywheel Holder Ass'y	1
01	CAL8247A	Flywheel Holder Ass'y	1	L05	OE00883A	BT Screw M3x18 Philips Pan Head (Chromate)	5	01	OCL8013I	Flywheel Holder	1
02	OC08096C	Capstan Belt	1	D02	JAL3734A	Chassis Sub Ass'y	1	02	CA08246A	Capstan Motor Ass'y	1
03	CAL8173A	Supply Flywheel Ass'y	1	01	OJL4138B	Front Chassis	1	03	BA04238A	Speed Cal. P.C.B. Ass'y	1
04	CAL8015A	Take-up Flywheel Ass'y	1	02	OJL4143A	Switch Plate Holder	1	L01	OE00226A	Screw M2.6x4 Philips Pan Head	3
05	OC08021B	Thrust Washer 3.1	1	03	OJL4140D	Side Chassis R	1	L02	OC08068C	Thrust Screw	2
06	OC08020B	Thrust Washer 2.6	1	04	OJL4144C	Center Chassis	1	L03	OC03857A	Lock Nut	2
07	OC08244A	Flange Thrust Cap	2	05	OJL4139D	Side Chassis L	1	L04	OE00857A	BT Screw M3x6 Philips Binding Head	1
08	OC08243A	Flange Thrust Spring	2	06	OJL4142B	Top Plate	1	L05	OE00037A	Earth Lug B-5	1
09	CA08370A	Sub Mechanism Chassis Ass'y	1	07	OJL4141A	Bottom Plate	1	L06	OE00233A	Washer 2.6mm Toothed Lock	3
10	OC08099B	Control Motor Belt	1	08	OJL4150A	Cabinet Holder	1				
11	OC08098B	Counter Belt B	1	09	OB08774A	Free Bushing 74mm	1				
12	CA08369A	Main Mechanism Chassis Ass'y	1	10	OB08775A	Free Bushing 67mm	3				
13	OBL8844A	10P-H Connector	1	11	OB08773A	Free Bushing 91mm	1				
14	OBL8652C	3P-H Connector	1	L01	OE00860A	BT Screw M3x6 Philips Binding Head (Black Chromate)	28				
15	OB08515A	Insu-Lock	16								
16	OC08237A	Azimuth Alignment Wire	1								
17	OM04309A	Check Seal	1								
—	OM04169A	Mechanism Serial No. Seal	1								
L01	OE00834A	BT Screw M3x30 Philips Pan Head	1								
L02	OE00037A	Earth Lug B-5	2								
L03	OE00833A	BT Screw M3x20 Philips Pan Head (Chromate)	3								

2.14. Flywheel Holder Ass'y (E01)

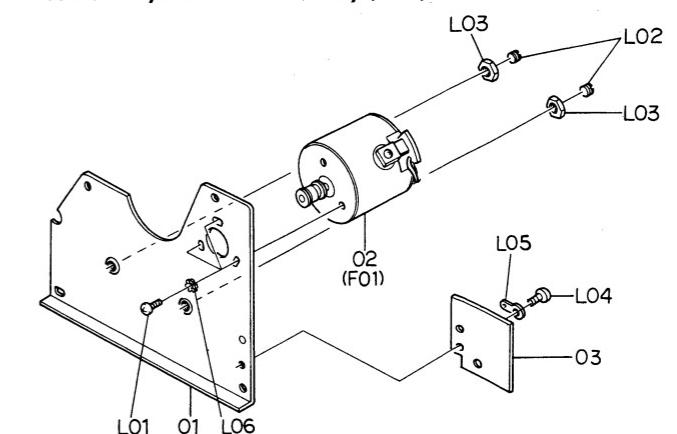


Fig. 2.14

2.15. Sub Mechanism Chassis Ass'y (E02)

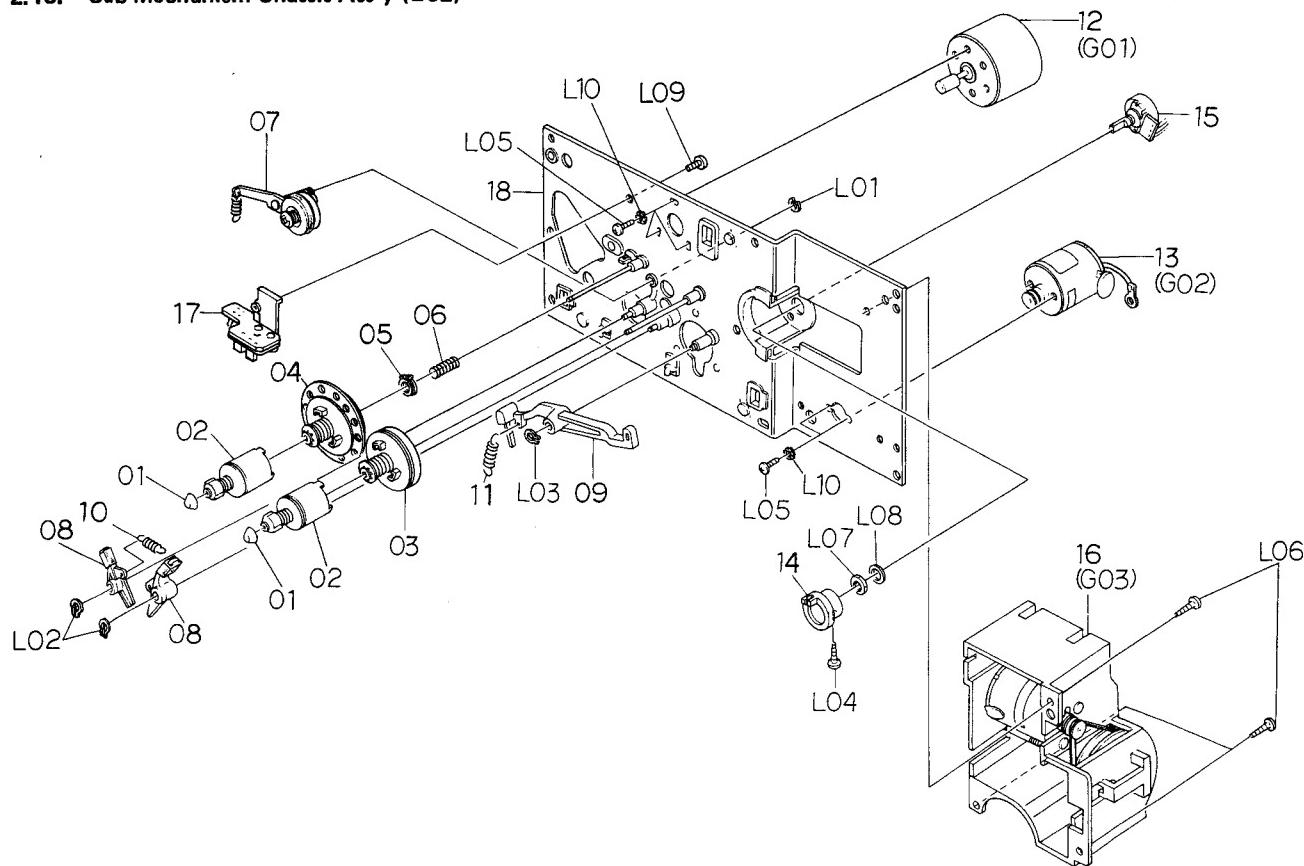


Fig. 2.15

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
E02	CA08370A	Sub Mechanism Chassis Ass'y	1	L04	OE00859A	BT Screw M2.6x6 Philips Binding Head (Chromate)	1
01	OC08039B	Reel Hub Head	2	L05	OE00226A	Screw M2.6x4 Philips Pan Head (Bronze)	5
02	CA08371A	Reel Hub B Ass'y	2	L06	OE00846A	BT Screw M3x8 Philips Pan Head (Chromate)	3
03	CA08037A	Reel Hub Take-up Ass'y	1	L07	—	Volume Nut	(1)
04	CA08236A	Reel Hub Supply Ass'y	1	L08	—	Volume Washer	(1)
05	CA08039A	Back Tension Ass'y	1	L09	OE00792A	BT Screw M2.6x6 Philips Pan Head (Chromate)	1
06	OC08269A	Back Tension Spring	1	L10	OE00233A	Washer 2.6mm Toothed Lock	5
07	CAL8193A	Idler Ass'y	1				
08	CAL8042A	Brake Ass'y	2				
09	OCL8030C	Brake Drive Arm	1				
10	OC08129A	Brake Arm Spring	1				
11	OC08128A	Brake Drive Arm Spring	1				
12	CA08242A	Reel Motor Ass'y	1				
13	CAL8034A	Control Motor Ass'y	1				
14	OCL8053B	Volume Coupler	1				
15	OB07240A	Volume Control 10kΩ (B)	1				
16	CAL8148A	Azimuth Alignment Motor Ass'y	1				
17	BAL4237B	Counter Pulse Generator P.C.B. Ass'y	1				
18	CAL8194A	Sub Chassis Ass'y	1				
L01	OE00698A	E-Ring 2.5mm	1				
L02	OE00837A	Stopper Ring 3mm	2				
L03	OE00838A	Stopper Ring 4mm	1				

Schematic Ref. No.	Part No.	Description	Q'ty
E03	CA08369A	Main Mechanism Chassis Ass'y	1
01	CAL8239A	Cassette Case Holder L Ass'y	1
02	OC08151A	Lid Arm Spring Tube	1
03	CAL8022A	Cassette Case Holder R Ass'y	1
04	CAL8240A	Cassette Case Ass'y	1
05	CA08373A	Head Mount Base Ass'y	1
06	OC08121A	Supply Pressure Roller Spring	1
07	OC08250A	Supply Pressure Roller Spring B	1
08	CAL8053B	Supply Pressure Roller Ass'y	1
09	OC08122B	Supply Pressure Roller Thrust Spring	1
10	CAL8079B	Take-up Pressure Roller Ass'y	1
11	OC08183B	Take-up Pressure Roller Thrust Spring	1
12	CA08372A	Head Base Ass'y E	1
13	OCL8182A	Pressure Roller Drive Bar B	1
14	OCL8086B	Head Base Roller	3
15	OCL8050B	Record Sensor	1
16	OCL8051E	Cassette Hold Arm	1
17	OC08120A	Cassette Hold Spring	1
18	CAL8196A	Back Tension Arm Ass'y	1
19	OC08254A	Tension Arm Collar	1
20	CAL8027A	Head Base Drive Arm Ass'y	1
21	OC08143C	Head Base Drive Arm Spring	1
22	CAL8026A	Pressure Roller Drive Arm Ass'y	1
23	CAL8237A	Auto Shut-off Ass'y	1
24	OC08119A	Record Protector	1
25	OCL8194C	Damper Lock Arm	1
26	OC08153A	Damper Lock Arm Spring Tube	1
27	OC08116A	Record Arm Spring	2
28	CAL8030A	Pneumatic Damper Ass'y	1
29	CA08291A	Supply Capstan Flange Ass'y	1
30	CA08292A	Take-up Capstan Flange Ass'y	1
31	OCL8186A	Cam Drive Gear	1
32	OCL8029H	Control Cam	1
33	OC08117A	Counter-Load Arm Spring	1
34	OC08152A	Counter-Load Arm Spring Tube	1
35	CAL8028A	Counter-Load Arm Ass'y	1
36	CAL8183A	Main Chassis Ass'y	1
L01	OE00837A	Stopper Ring 3mm	9
L02	OE00172A	Washer 3mm Toothed Lock	3
L03	OE00834A	BT Screw M3x30 Philips Pan Head (Chromate)	2
L04	OE00831A	BT Screw M3x10 Philips Pan Head (Chromate)	3
L05	OE00254A	Washer 3.1mm (Plastics)	2
L06	OE00222A	E-Ring 2mm	2
L07	OE00876A	BT Screw M2.6x8 Philips Pan Head (Chromate)	8
L08	OCL8060B	Height Adjustment Nut	2
L09	OE00142A	Washer 2.6mm	2
L10	OE00879A	BT Screw M2x15 Philips Pan Head (Chromate)	1
L11	OE00838A	Stopper Ring 4mm	3
L12	OE00846A	BT Screw M3x8 Philips Pan Head (Chromate)	3
L13	OE00895A	Earth Lug 3mm	2
L14	OE00859A	BT Screw M2.6x6 Philips Binding Head (Chromate)	1
L15	OE00255A	Washer 2.6mm	1

2.16. Main Mechanism Chassis Ass'y (E03)

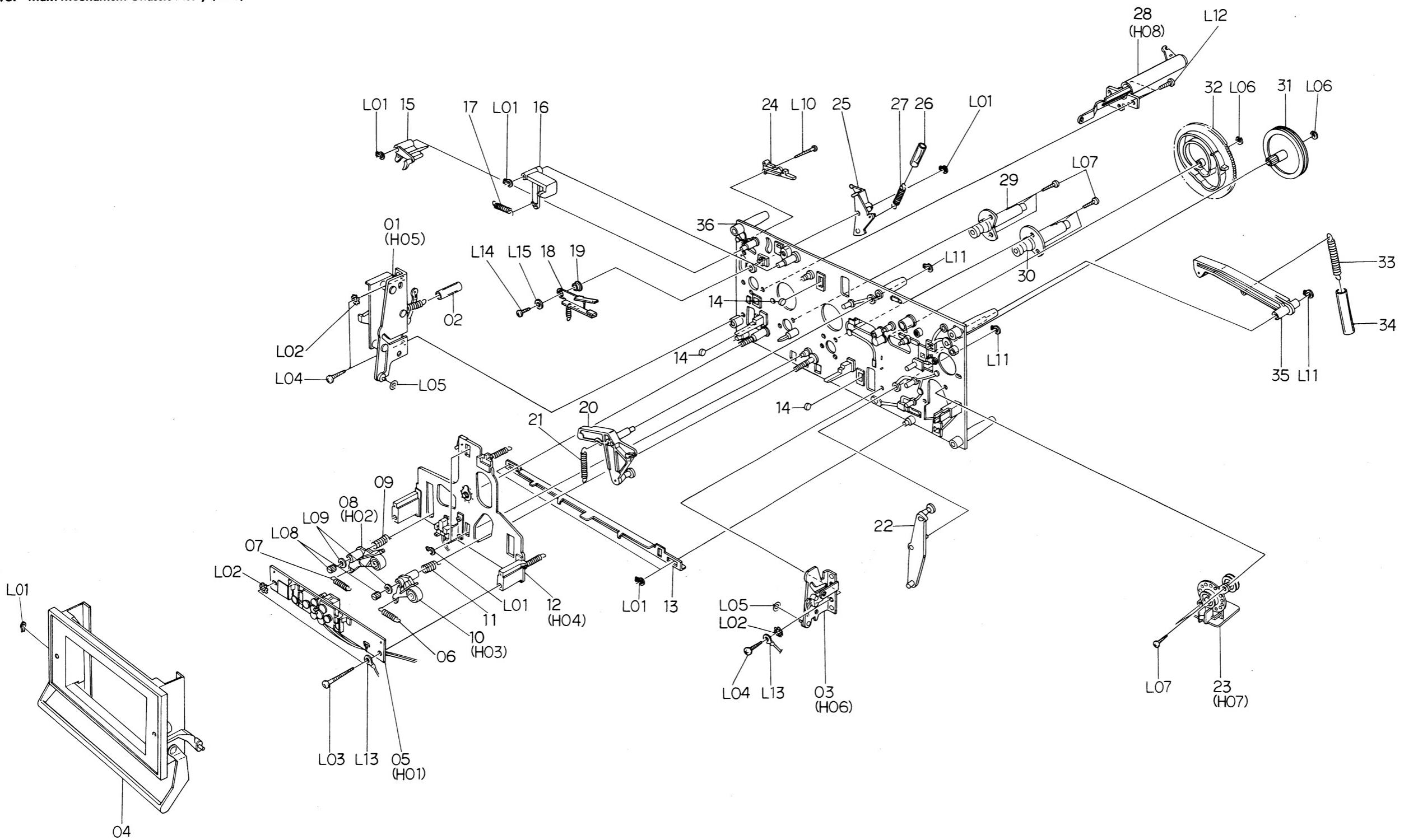


Fig. 2.16

2.17. Capstan Motor Ass'y (F01)

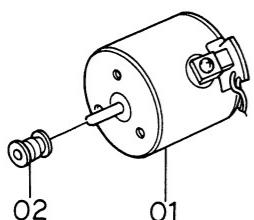


Fig. 2.17

2.18. Reel Motor Ass'y (G01)

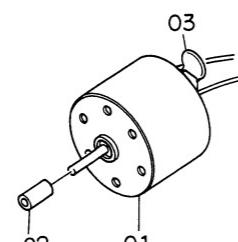


Fig. 2.18

2.19. Control Motor Ass'y (G02)

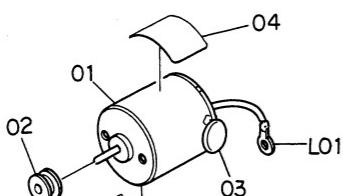


Fig. 2.19

2.20. Azimuth Alignment Motor Ass'y (G03)

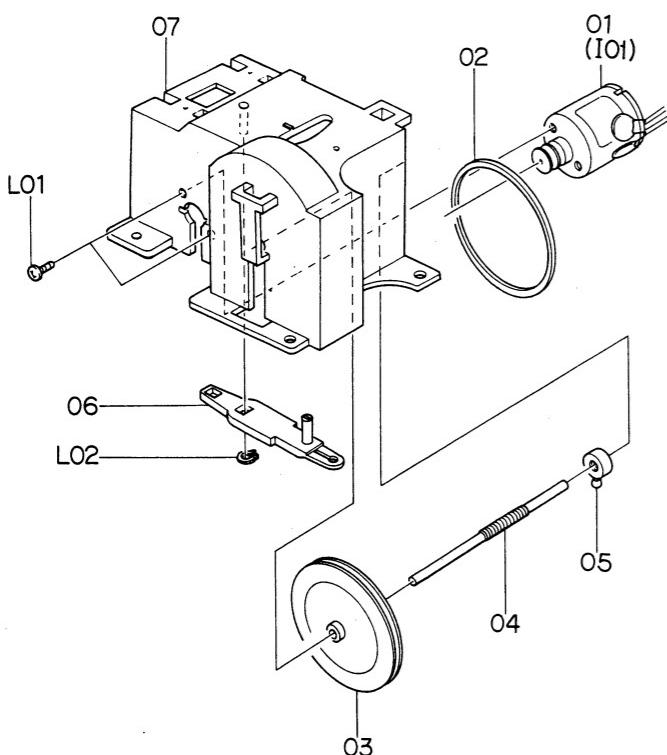


Fig. 2.20

2.21. Head Mount Base Ass'y (H01)

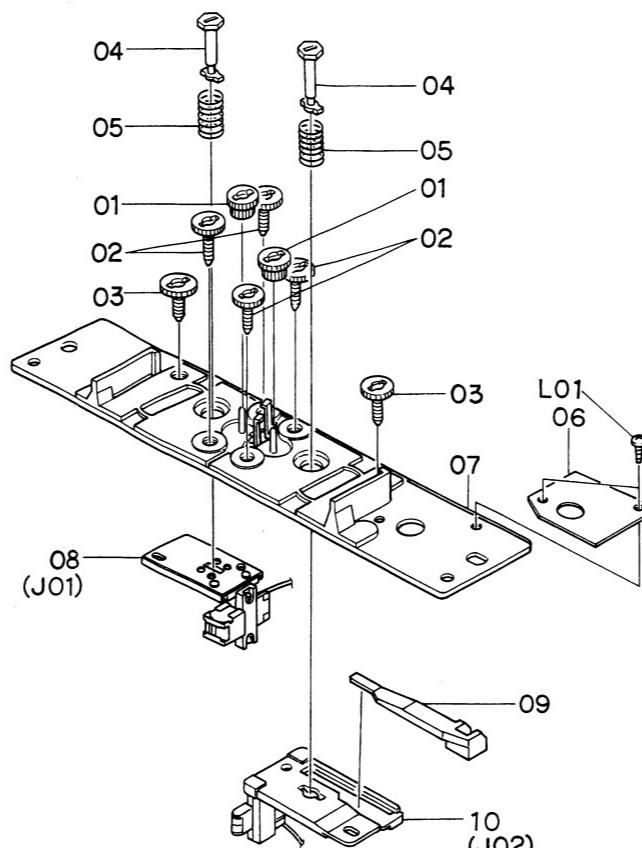


Fig. 2.21

2.22. Supply Pressure Roller Ass'y (H02)

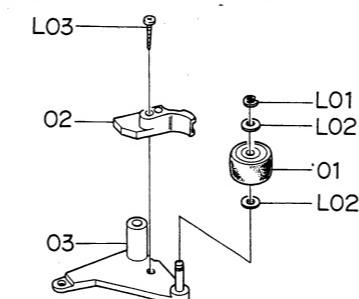


Fig. 2.22

2.23. Take-up Pressure Roller Ass'y (H03)

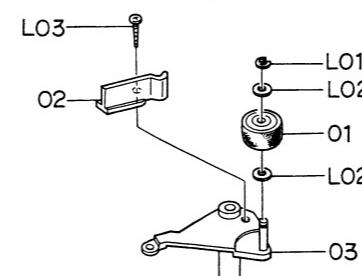


Fig. 2.23

Schematic Ref. No.	Part No.	Description	Q'ty
F01	CA08246A	Capstan Motor Ass'y	1
01	OC08271A	Capstan Motor	1
02	OC08079G	Capstan Motor Pulley	1
G01	CA08242A	Reel Motor Ass'y	1
01	OC08272A	Reel Motor	1
02	OC08063F	Reel Motor Pulley	1
03	OB09290A	Ceramic Capacitor 0.01μ 50V Z	1
G02	CAL8034A	Control Motor Ass'y	1
01	OC08137A	Control Motor	1
02	OC18064A	Control Motor Pulley	1
03	OB09292A	Ceramic Capacitor 0.1μ 50V Z	1
04	OM03985A	Motor Label 730	1
05	OM03988A	Motor Seal B	1
L01	OE00037A	Earth Lug B-5	1
G03	CAL8148A	Azimuth Alignment Motor Ass'y	1
01	CAL8149A	Azimuth Motor Ass'y	1
02	OC08099B	Control Motor Belt	1
03	OC08229B	Drive Pulley	1
04	OC08230B	Drive Pulley Shaft	1
05	OC08231C	Drive Nut	1
06	OC08232C	Drive Bar	1
07	OC08233G	Drive Unit Base	1
L01	OE00226A	Screw M2.6x4 Philips Pan Head	2
L02	OE00837A	Stopper Ring 3mm	1
H01	CA08373A	Head Mount Base Ass'y	1
01	OCL8028C	Head Height Adjustment Gear	2
02	OCL8027F	Head Height Adjustment Screw	4
03	OCL8026D	Azimuth Alignment Screw	2
04	OC8161B	Spring Stopper	2
05	OC8187B	Head Plate Spring	2
06	OCL8236A	Azimuth Alignment Wire Hold Plate	1
07	CAL8083C	Head Mount Base Sub Ass'y	1
08	CAL8244A	P-8L Playback Head Ass'y	1
09	OCL8235A	Azimuth Alignment Plate	1
10	CAL8238A	R-8L Record Head Ass'y	1
L01	OE00824A	BT Screw M2.6x6 Philips Pan Head (Black Chromate)	2
H02	CAL8053B	Supply Pressure Roller Ass'y	1
01	OC08164G	Pressure Roller	1
02	OC08189B	Supply Tape Guide	1
03	CAL8061A	Supply Pressure Roller Arm Ass'y	1
L01	OE00042A	E-Ring 1.5mm	1
L02	OC08024A	Washer 2mm	2
L03	OE00788A	BT Screw M2x8 Philips Pan Head	1

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
H03	CAL8079B	Take-up Pressure Roller Ass'y	1	H08	CAL8030A	Pneumatic Damper Ass'y	1
01	OC08164G	Pressure Roller	1	01	OCL8058C	Damper Piston	1
02	OC08181C	Take-up Tape Guide	1	02	OCL80102C	Damper Ring	1
03	CAL8073B	Take-up Pressure Roller Arm Ass'y	1	03	OCL8010C	Damper Plate	1
L01	OE00042A	E-Ring 1.5mm	1	04	OCL8059D	Sylinder	1
L02	OC08024A	Washer 2mm	2	L01	OE00874A	Stopper Ring CS 2mm	1
L03	OE00788A	BT Screw M2x8 Philips Pan Head	1	I01	CAL8149A	Azimuth Motor Ass'y	1
H04	CA08372A	Head Base Ass'y E	1	01	OC08137A	Control Motor	1
01	GAL2083A	E-8LH Erase Head	1	02	OCL8064A	Control Motor Pulley	1
02	OC08158D	EH Hold Plate	1	03	OB09292A	Ceramic Capacitor 0.1μ 50V Z	2
03	OC08166A	EH Hold Plate Spring	1	04	OM03985A	Motor Label 730	1
04	OCL8174D	Cassette Hold Spring	1	05	OM03988A	Motor Seal B	1
05	CAL8003Q	Head Base Ass'y	1	06	OBL8708A	2P Connector	1
06	OC08175A	Head Base L Spring	3				
07	OBL8764A	2P-H Connector	1				
L01	OE00889A	Screw M1.7x8 Philips Pan Head	2				
L02	OE00909A	Screw M2x6 Philips Pan Head	3				
L03	OE00117A	Washer 2mm	3				
L04	OE00853A	BT Screw M2x3 Philips Pan Head	1				
L05	OE00952A	Washer 1.7mm	2				
H05	CAL8239A	Cassette Case Holder L Ass'y	1				
01	CAL8090F	Cassette Case L Sub Ass'y	1				
02	OCL8073C	Lid Arm A	1				
03	OCL8195G	Arm Holder	1				
04	OCL8245A	Eject Arm A	1				
05	OCL8197C	Eject Arm B	1				
06	OCL8199B	Eject Arm Joint	1				
07	OC08114A	Lid Arm Spring	1				
08	OC08211C	Eject Arm Spring	1				
09	OCL8248B	Pitch Control Volume Holder	1				
10	OB07282A	Volume Control 20kΩ (B)	1				
L01	OE00837A	Stopper Ring 3mm	1				
L02	OE00838A	Stopper Ring 4mm	1				
L03	OE00865A	BT Screw M3x10 Philips Binding Head	2				
L04	—	Volume Nut	(1)				
L05	—	Volume Washer	(1)				
H06	CAL8022A	Cassette Case Holder R Ass'y	1				
01	OC08133A	Eject Sensor	1				
02	CAL8044A	Cassette Case Holder R Sub Ass'y	1				
L01	OE00840A	BT Screw M2x8 Philips Pan Head	2				
H07	CAL8237A	Auto Shut-off Ass'y	1				
01	OCL8047A	Shut-off Pulley A	1				
02	OC08206B	Shut-off Pulley B	1				
03	OC08088B	Shut-off Pulley Shaft	1				
04	OC08207B	Shut-off Pulley Holder	1				
05	BAL4070A	Shut-off P.C.B. Ass'y	1				

2.24. Head Base Ass'y E (H04)

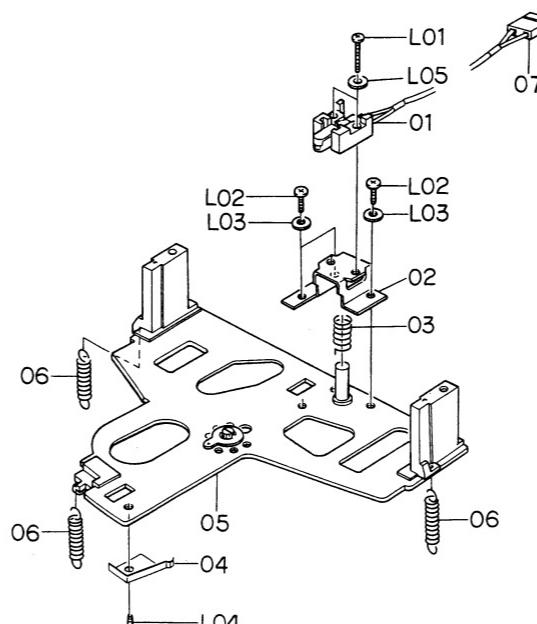


Fig. 2.24

2.25. Cassette Case Holder L Ass'y (H05)

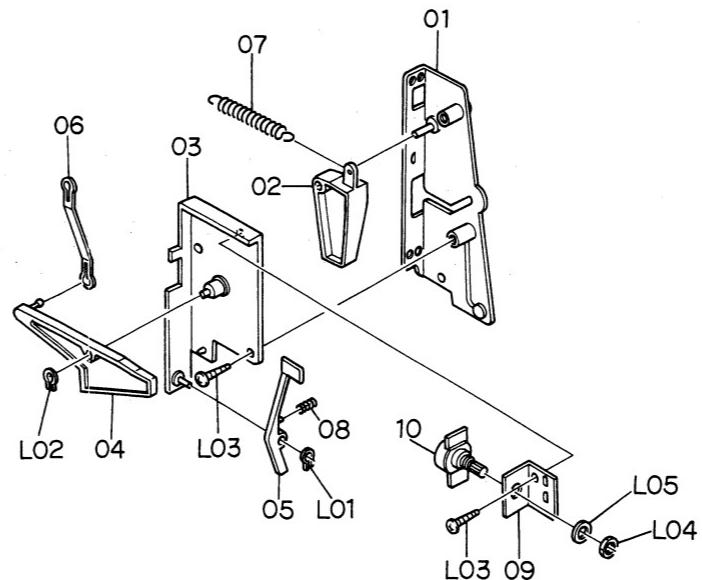


Fig. 2.25

2.26. Cassette Case Holder R Ass'y (H06)

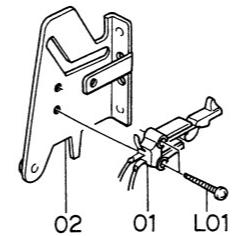


Fig. 2.26

2.27. Auto Shut-off Ass'y (H07)

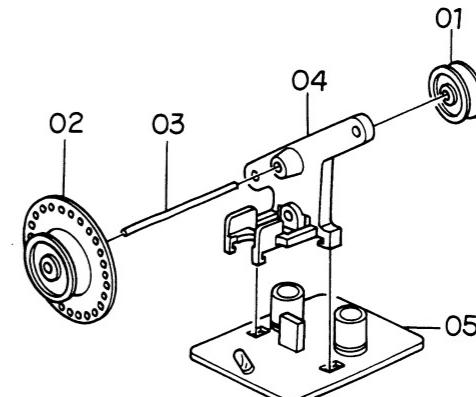


Fig. 2.27

2.28. Pneumatic Damper Ass'y (H08)

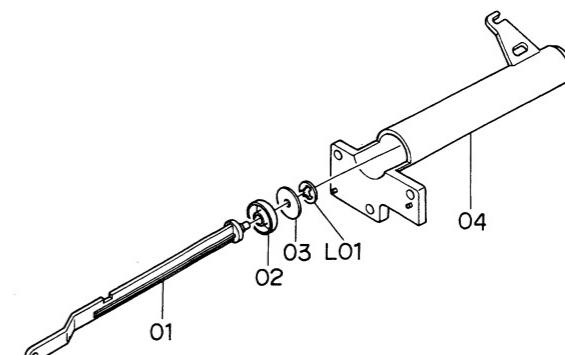


Fig. 2.28

2.29. Azimuth Motor Ass'y (I01)

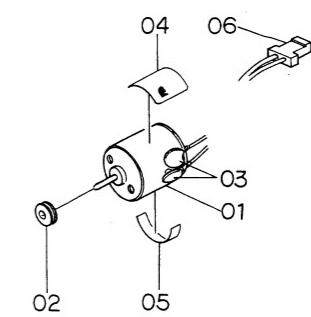


Fig. 2.29

3. WIRING DIAGRAM

2.30. P-8L Playback Head Ass'y (J01)

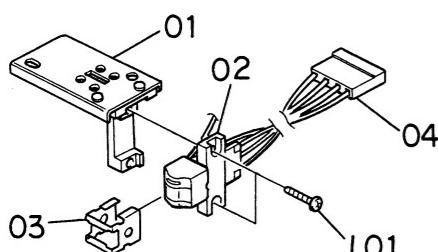


Fig. 2.30

2.31. R-8L Record Head Ass'y (J02)

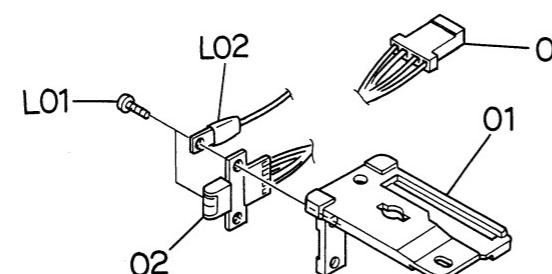


Fig. 2.31

Schematic Ref. No.	Part No.	Description	Q'ty
J01	CAL8244A	P-8L Playback Head Ass'y	1
01	CAL8307A	Head Plate Ass'y	1
02	GAL2101A	P-8LZ Playback Head	1
03	OCL8169D	Pad Lifter 54	1
04	OBL8767A	4P-H Connector	1
L01	OE00886A	Screw M1.7x6 Philips Pan Head	2

Schematic Ref. No.	Part No.	Description	Q'ty
J02	CAL8238A	R-8L Record Head Ass'y	1
01	OCT8234B	Head Plate	1
02	GAL2102A	R-8LZ Record Head	1
03	OBL8768A	4P-H Connector	1
L01	OE00887A	Screw M1.7x4 Philips Pan Head	2
L02	OC08304A	RH Grounding Terminal	1

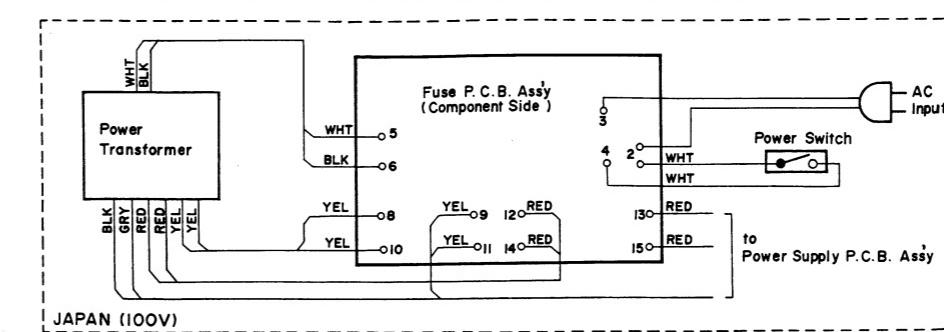
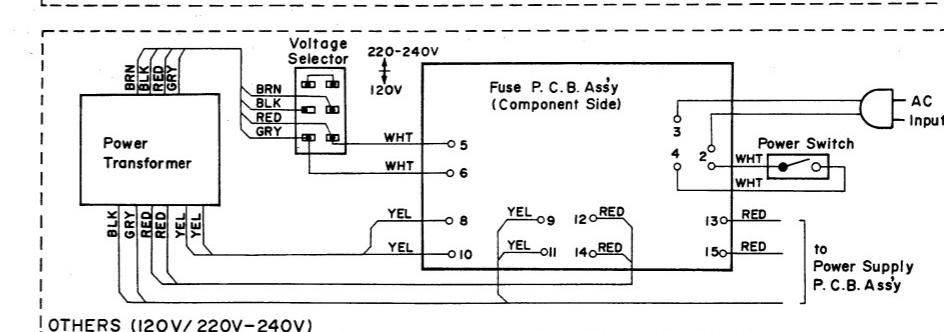
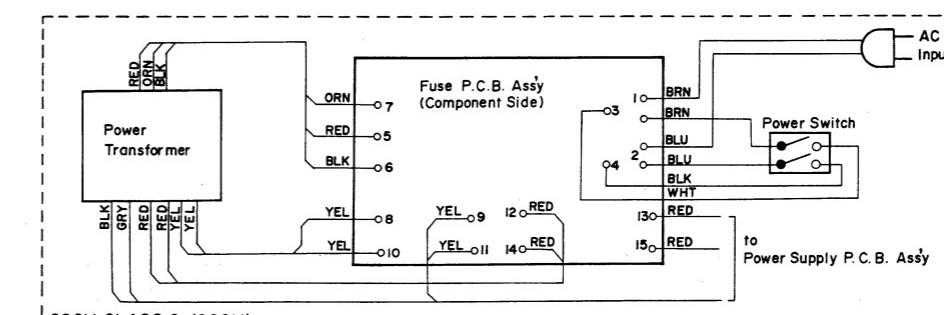
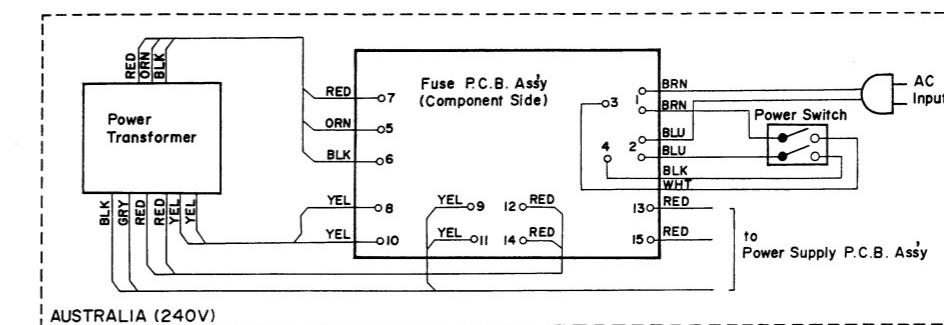
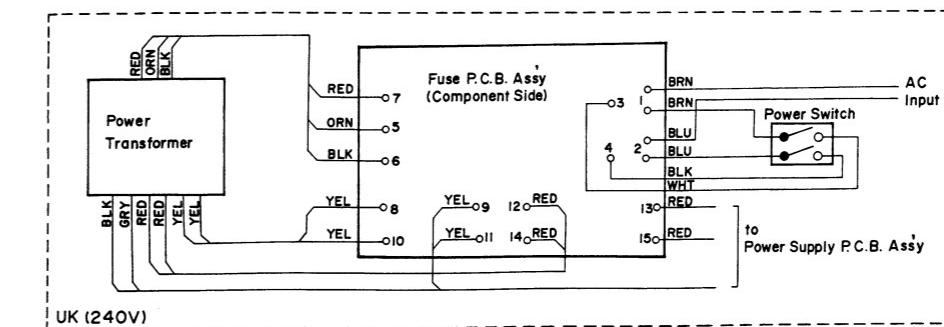
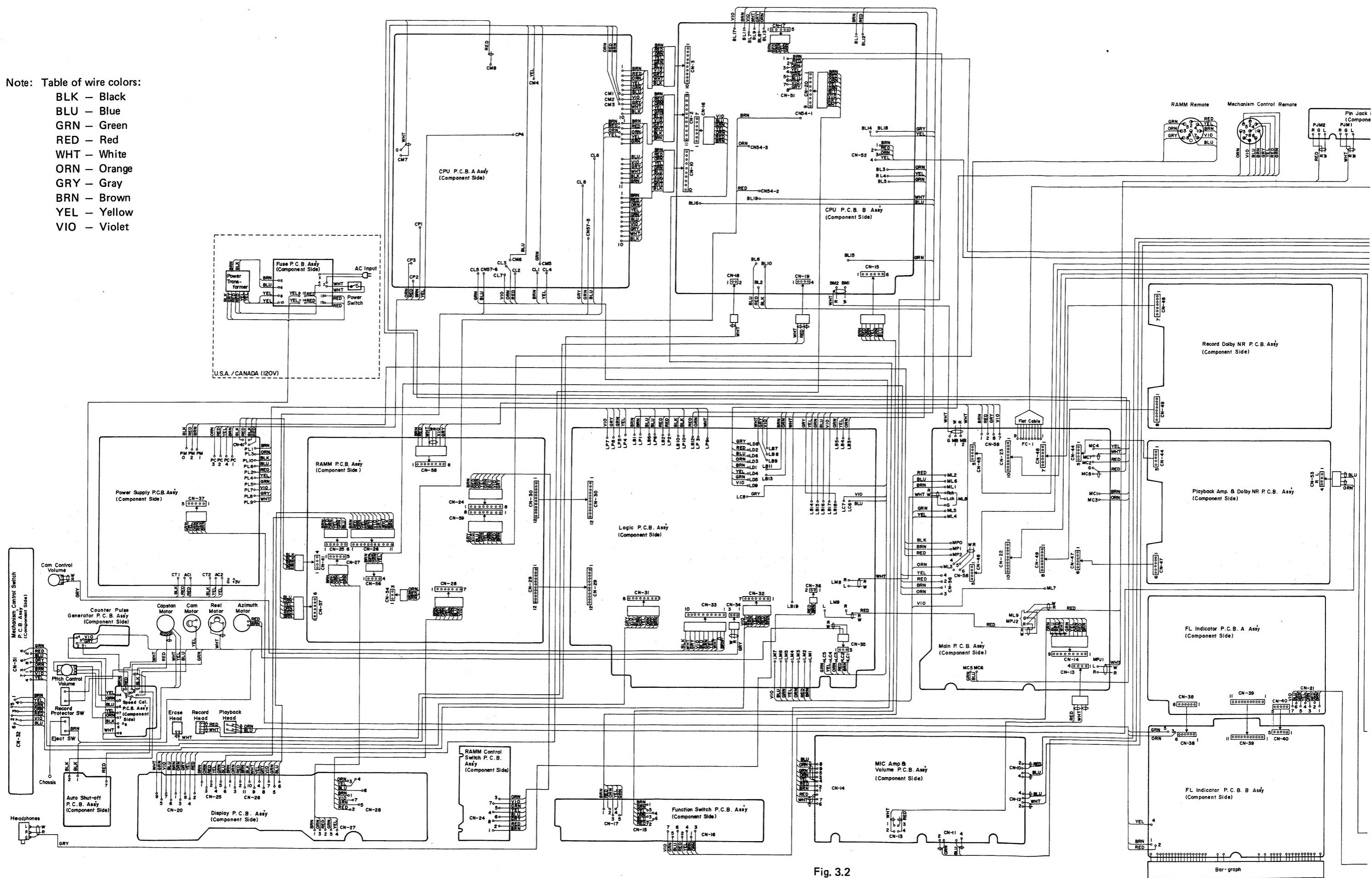
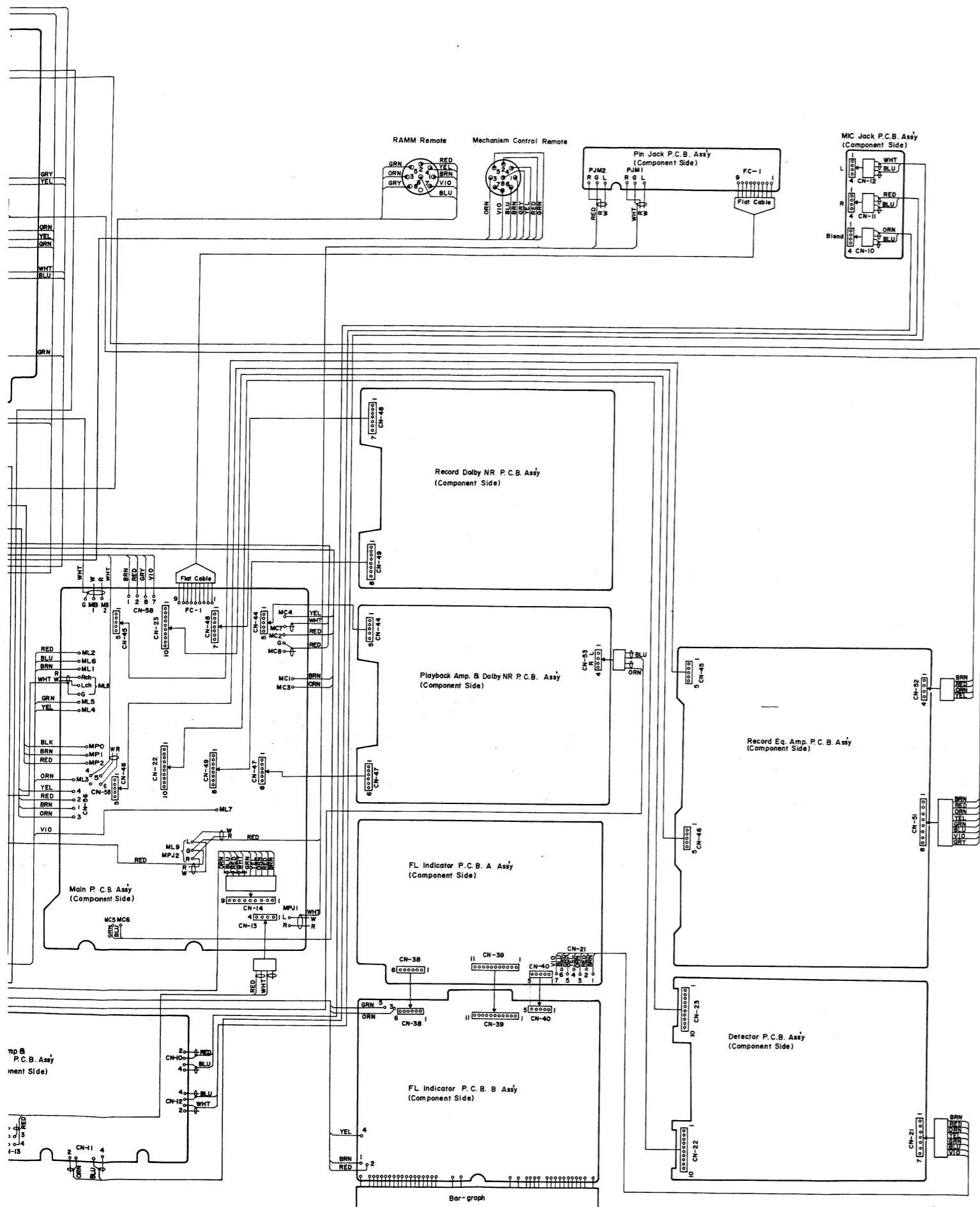


Fig. 3.1

Note: Table of wire colors:

BLK – Black
BLU – Blue
GRN – Green
RED – Red
WHT – White
ORN – Orange
GRY – Gray
BRN – Brown
YEL – Yellow
VIO – Violet





4. SCHEMATIC DIAGRAMS

4.1. Attention to Servicemen

(1) Parts Replacement

Following parts shall be replaced with the specified ones.
Refer to the parts list.

- (a) Power Circuit
Power Cord
Power Transformer T1
Power Switch SW1

- (b) Fuse P.C.B. Ass'y
Spark Killer
F401-405

- (c) Power Supply P.C.B. Ass'y
Q403, 404, 405, 409, 410, 419
D401

- (d) Function Switch P.C.B. Ass'y
PL701-708

- (e) Mechanism Control Switch P.C.B. Ass'y
PL601-606

- (f) Counter Pulse Generator P.C.B. Ass'y
PL601
R601

- (g) Shut-off P.C.B. Ass'y
R605
PL407

- (h) Detector P.C.B. Ass'y
R946, 947

- (i) Record Dolby NR P.C.B. Ass'y
RL301

- (j) Record Eq. Amp. P.C.B. Ass'y
R301, 302

- (k) MIC Amp. and Volume P.C.B. Ass'y
R315, 316

- (l) Playback Amp. and Dolby NR P.C.B. Ass'y
R303, 304

- (m) Main P.C.B. Ass'y
RL301, 302

- (n) Logic P.C.B. Ass'y
Q101, 102, 201, 202, 504, 505, 506, 507, 538, 539
R104, 204, 540, 571, 572, 573, 606, 619, 626, 635

(o) CPU P.C.B. B Ass'y

Q102, 103, 202, 203, 819, 820, 822, 823
R828, 834, 835, 836, 837, 872, 873, 874, 875, 876,
877, 889, 890

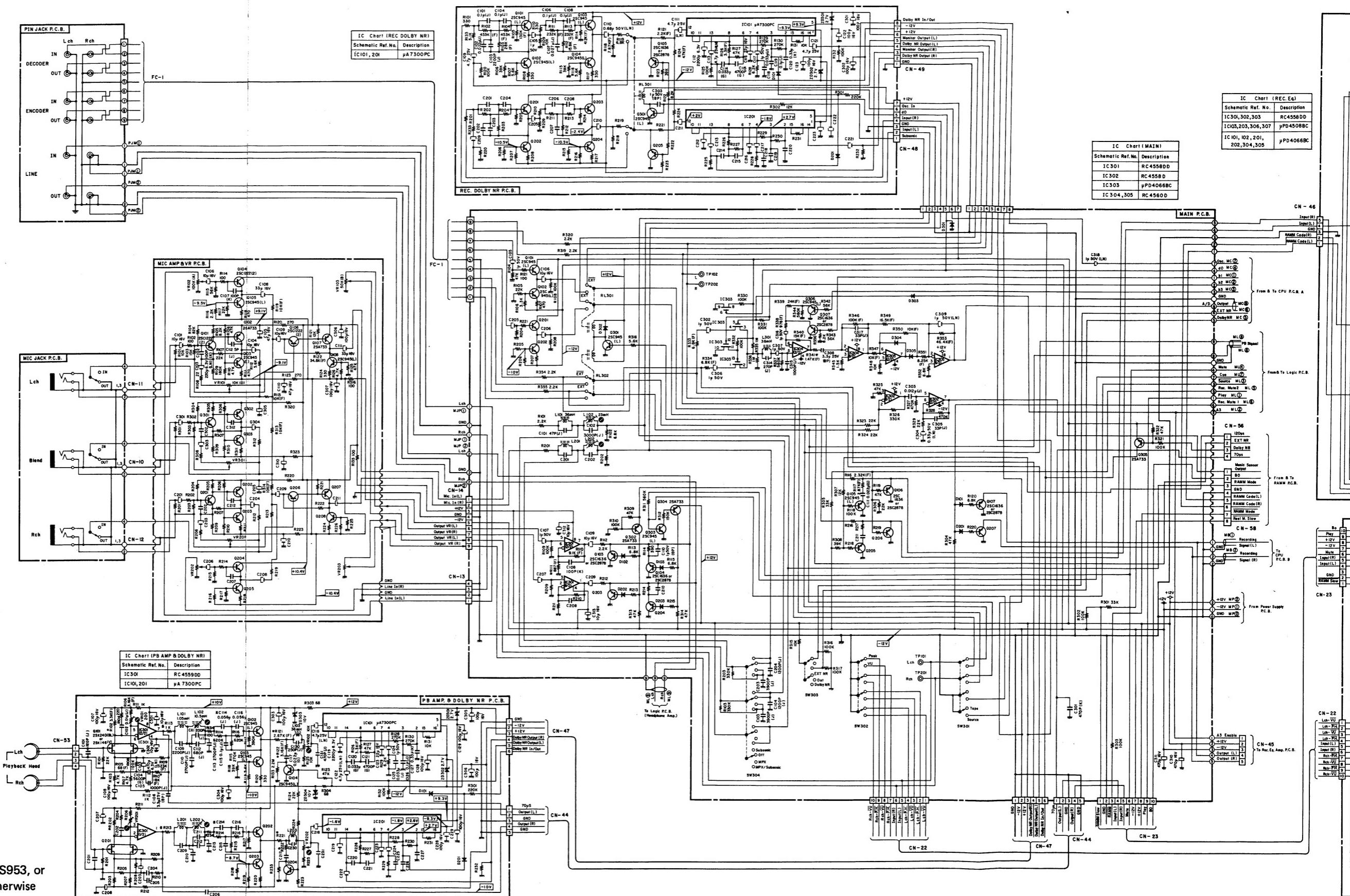
- (p) RAMM P.C.B. Ass'y
R901, 902, 904, 905, 001-017

- (q) Display P.C.B. Ass'y
PL001-028

(2) Insulation Check

Before returning the repaired N-1000ZXL Limited Version to a customer, check to insure that the exposed part is accurately insulated from the AC line by measuring the leakage current or the insulation resistance between them.

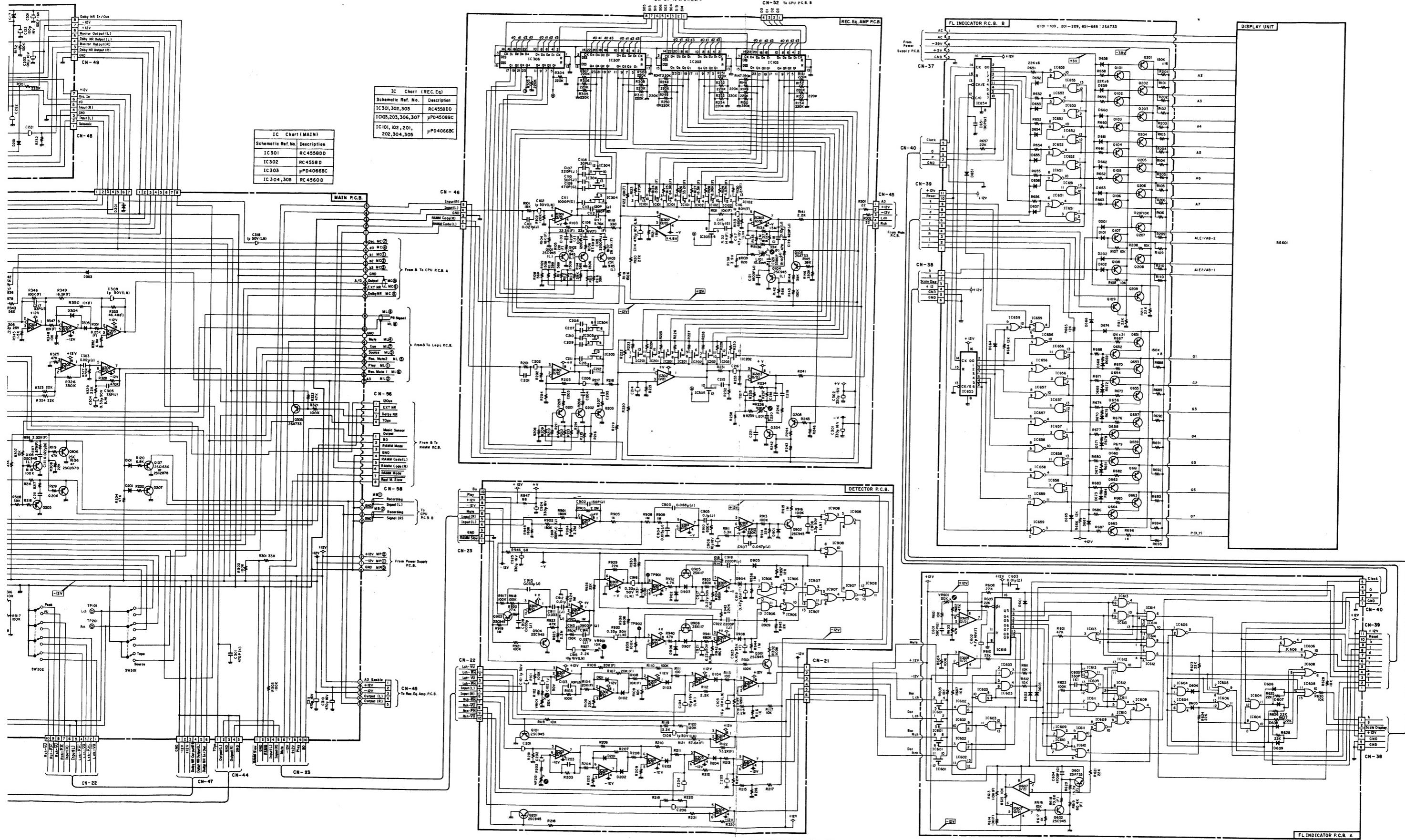
4.2. Amplifier Section



Notes: 1. Diode is 1SS53, 1S953, or 1S1555 unless otherwise specified.

2. Resistor and capacitor marked with * show typical value.

Fig. 4.1



IC Chart (FL INDICATOR A, B , DETECTOR)							
Schematic Ref. No.	Description	Schematic Ref. No.	Description	Schematic Ref. No.	Description	Schematic Ref. No.	Description
IC301,304,306	RC455BD	IC603,613	pPD401IBC	IC607	RC456D	IC901,902,903,904	RC455BD
IC302,303,305	RC456D0	IC605	pPC456C	IC608	pPD402BC	IC905	IC654,655
IC601,	pPD406BC	IC606,610,651-653	pPD400IBC	IC609	pPD407IBC	IC906,907,908	pPD401IBC
IC602,604,611	pPD408BC	IC656,657,658,659		IC612,614	pPD4073BC	IC 615	pPD404BC

4.3. CPU Section

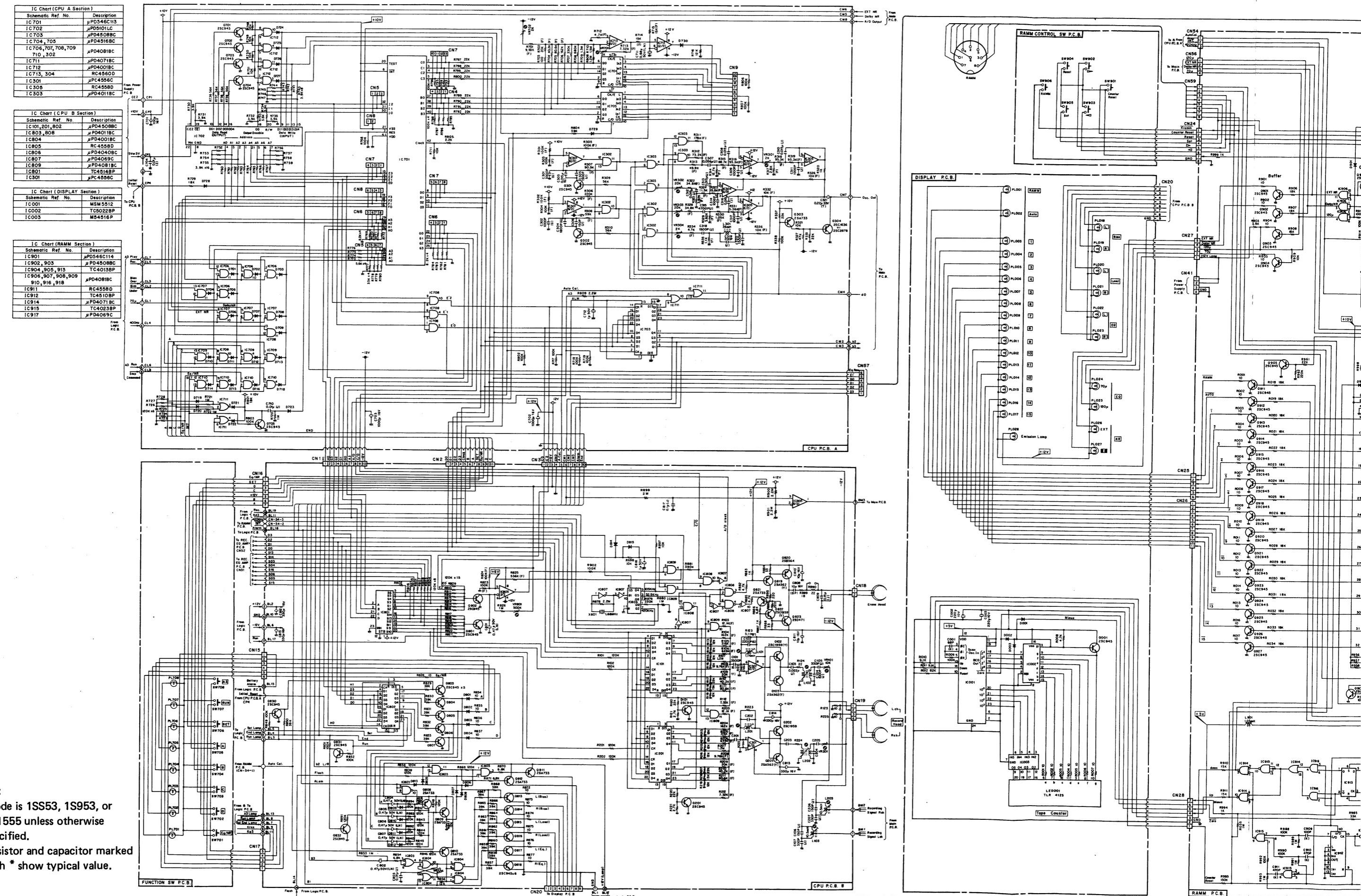


Fig. 4.2

Notes:

1. Diode is 1SS53, 1S953, or 1S1555 unless otherwise specified.
2. Resistor and capacitor marked with * show typical value.

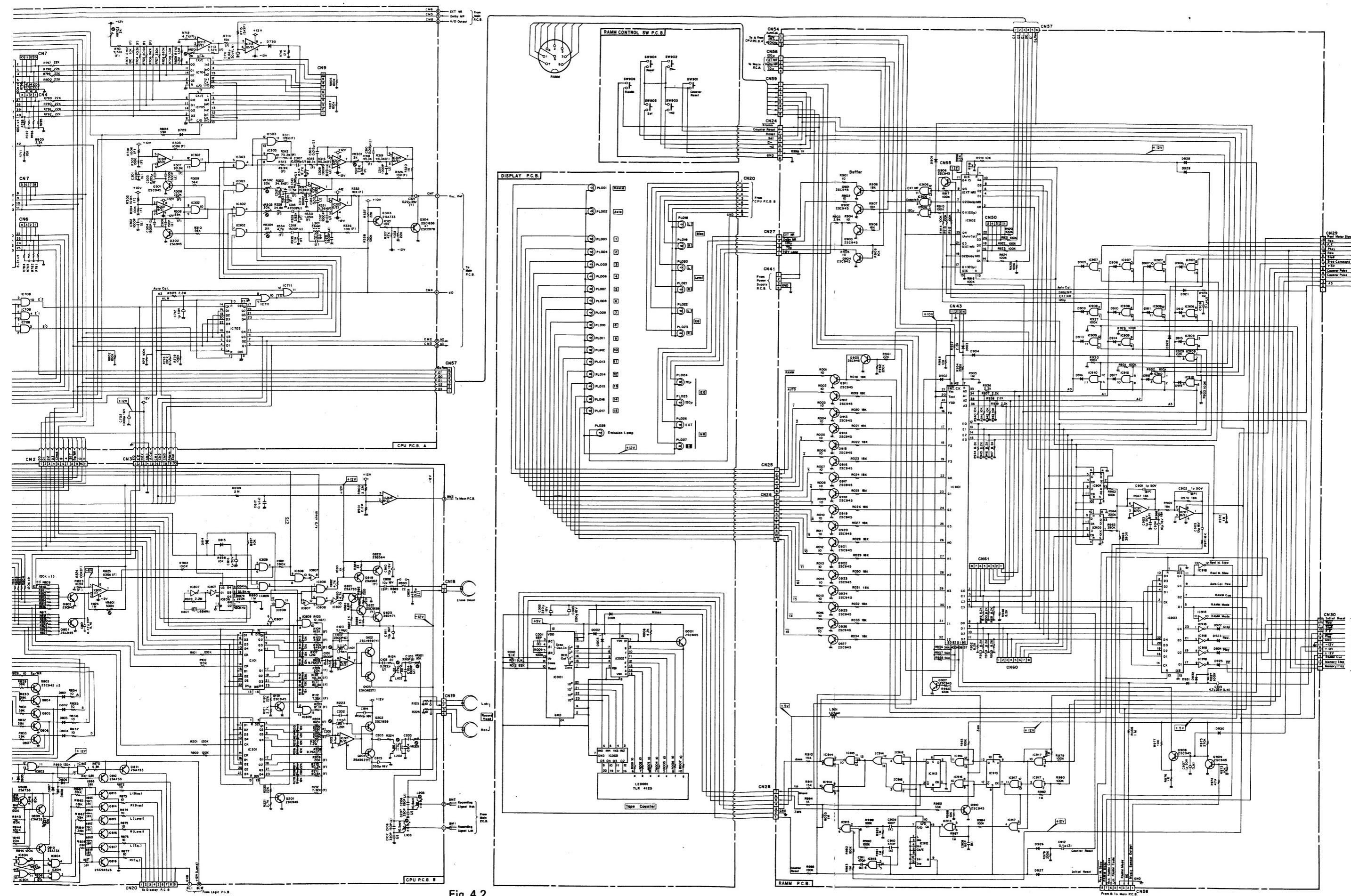


Fig. 4.2

4.4. Mechanism Control Section

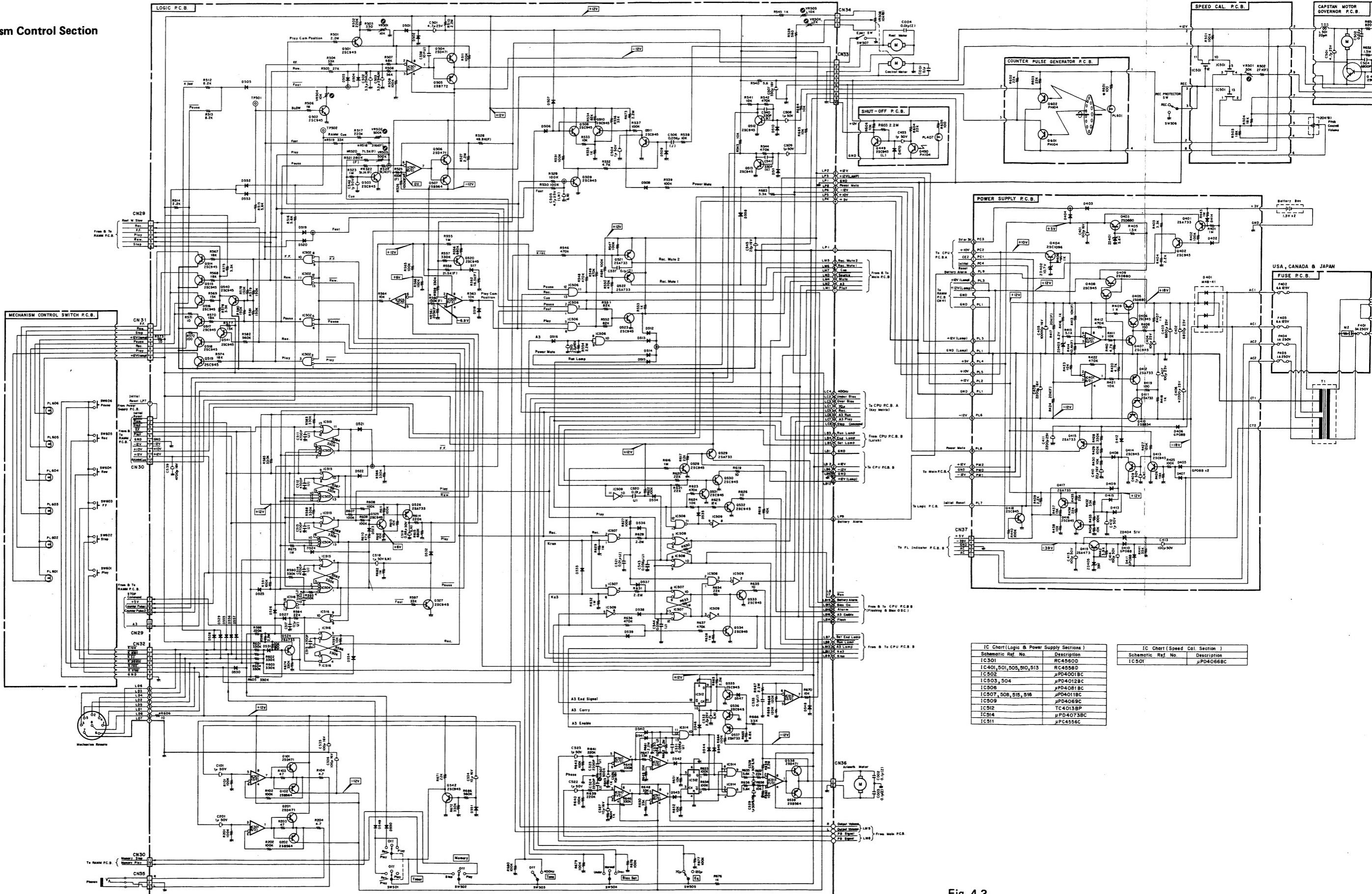


Fig. 4.3

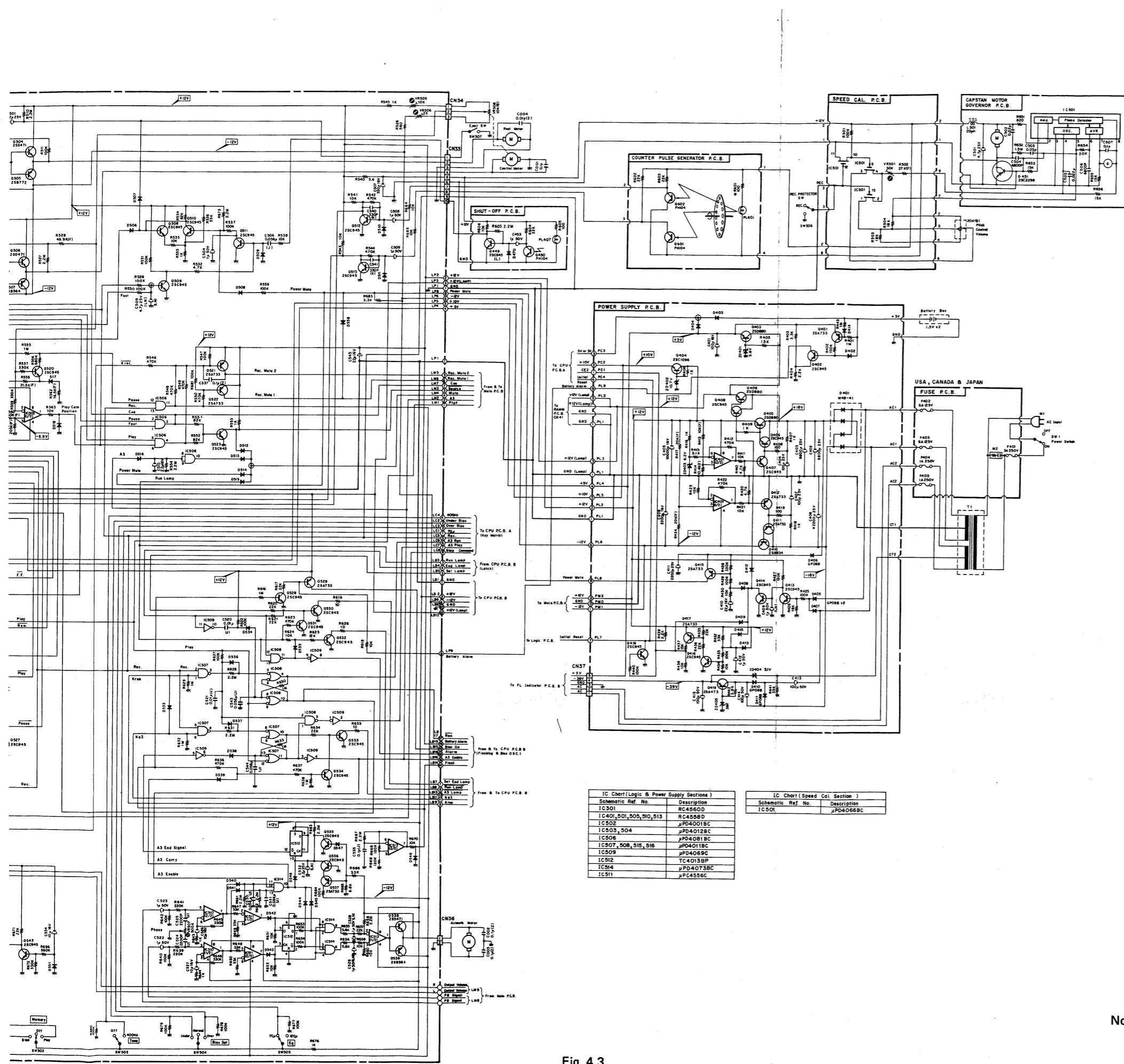
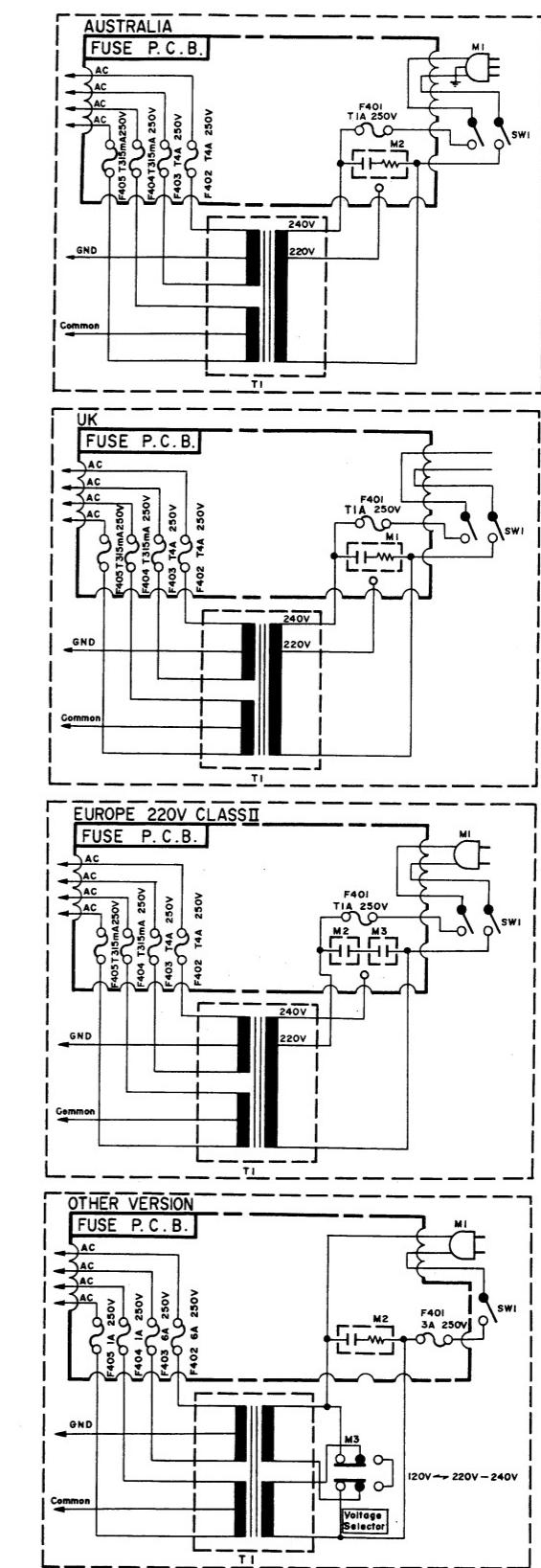


Fig. 4.3



Notes: 1. Diode is 1SS53, 1S953, or 1S1555 unless otherwise specified.
2. Resistor and capacitor marked with * show typical value.

5. SPECIFICATIONS

Power Source	100, 120, 120/220-240, 220 or 240 V AC; 50/60 Hz (According to country of sale)
Power Consumption	65 W max.
Tape Speed	1-7/8 ips (4.75 cm/sec)
Wow and Flutter	Less than 0.04% wtd rms Less than 0.08% wtd peak
Frequency Response (w. A.B.L.E.)	20-20,000 Hz ±0.75 dB (18-25,000 Hz ±3 dB) Nakamichi EX, EXII, SX, ZX tape Recording level -20 dB
Signal to Noise Ratio	Dolby B-Type NR in <70 µs, ZX tape> Better than 66 dB (400 Hz, 3% THD, IHF A-wtd rms) Dolby C-Type NR in/using supplied NR-100 unit <70 µs, ZX tape> Better than 72 dB (400 Hz, 3% THD, IHF A-wtd rms)
Total Harmonic Distortion	Less than 0.8% (ZX tape) Less than 1.0% (SX, EXII tape) (400 Hz, 0 dB)
Erasure	Better than 60 dB (100 Hz)
Separation	Better than 37 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Bias Frequency	105 kHz
Input (Line)	50 mV, 50 k ohms (Microphone) 0.2 mV, 10 k ohms (Noise Reduction) 100 mV, 50 k ohms
Output (Line)	1 V (400 Hz, 0 dB, output level control at max.) (Headphones) 45 mW (400 Hz, 0 dB, output level control at max.) (Noise Reduction) 100 mV, 2.2 k ohms
Dimensions	527 (W) x 264 (H) x 332 (D) millimeters 20-3/4 (W) x 10-25/64 (H) x 12-43/64 (D) inches
Approximate Weight	19.5 kg 43 lb.

Specifications of NR-100

Dimensions	120 (W) x 41 (H) x 240 (D) mm 4-23/32 (W) x 1-5/8 (H) x 9-7/16 (D) inches
Weight	Appr. 880 g 1 lb. 15 oz
Cable Length	70 cm, 27-1/2 inches

- Specifications and appearance design are subject to change for further improvement without notice.
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